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Run on:
                                                                                                            OM protein - protein search, using sw model
March 11, 2004, 17:50:06; Search time 5.32258 Seconds (without alignments) 145.491 Million cell updates/sec
                                                                                                                                                                                             GenCore version 5.1.6 Copyright (c) 1993 - 2004 Compugen Ltd.
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Scoring table: Sequence: Title: Perfect score: BLOSUM62 Gapop 10.0 , Gapext 0.5 US-09-977-406A-5 97 . 1 EWQTDNCETCTCYET 15

Total number of hits satisfying chosen parameters: Searched: 389414 seqs, 51625971 residues

389414

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Database : Issued\_Patents\_AA:\*

1: /cgm2\_6/ptodata/2/iaa/5A\_COMB.pep:\*

2: /cgm2\_6/ptodata/2/iaa/5B\_COMB.pep:\*

3: /cgm2\_6/ptodata/2/iaa/6A\_COMB.pep:\*

4: /cgm2\_6/ptodata/2/iaa/FCTUS\_COMB.pep:\*

5: /cgm2\_6/ptodata/2/iaa/PCTUS\_COMB.pep:\*

6: /cgm2\_6/ptodata/2/iaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

00 UI	25		24	23	22	21	20	19	18	17	16	15	14	13	1.2	11	10	9	œ	7	σ	υī	4	W	N	P	Result No.
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,	320	1199	755	753	493	459	459	459	273	376	1052	1052	290	1170	441	306	239	218	9	9	164	164	164	466	1172	94	Length
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-09-193-861-5	-09-183-861-2	-09-134-000C-5	61-458C-	-07-861-458C-9	96	-09-687-	-09-286-	-09-	-08-152-	-500	-09-163-6	-08-852-806-	-09-543-6	8-313-288	08-985-	09-489-039	-US93-0165	08-985-526-	08-154-712B-2	08-481-968A-2	-09-902-77	09-905-125A-1	-09-907-794A-1	9-724-864-4	US-08-313-288B-19	9-535A-	ID
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41.5 42.8 320 4 US-09-551-974A-22 41.5 42.8 320 4 US-09-551-974A-22 41.5 42.8 320 4 US-09-551-974A-22 41.5 42.8 320 4 US-09-565-501A-25 41.5 42.8 320 4 US-09-565-501A-25 41.5 42.8 320 4 US-09-639-206A-55 41.5 42.8 320 4 US-09-639-206A-55 41.5 42.8 320 4 US-09-639-206A-55 41.5 42.8 320 4 US-09-639-206A-55 41.5 42.8 320 4 US-09-874-923-22 41.5 42.8 320 4 US-09-874-923-121 41.5 42.8 320 4 US-09-874-923-121 41.5 42.8 320 4 US-09-874-923-55 41.5 42.8 320 4 US-09-874-923-55 41.5 42.8 320 4 US-09-874-923-55 41.5 42.8 320 3 US-09-874-923-121 41.6 42.3 313 4 US-09-874-923-121 41.7 42.3 313 4 US-09-874-923-121 41.8 42.3 313 4 US-09-874-923-121 41.9 42.3 313 4 US-09-873-569-2 41.9 42.3 31276 3 US-08-937-236-3 41.9 42.3 31291 3 US-08-937-236-2	45	44	43	42	41	40	39	ა 8	37	36	ω ω	34	ω ω	32	31	30	29	10
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	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	
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US-09-022-765-55 US-09-551-974A-22 US-09-551-974A-25 US-09-555-501A-25 US-09-565-501A-25 US-09-639-206A-55 US-09-639-206A-55 US-09-874-923-22 US-09-874-923-22 US-09-874-923-121 US-09-874-923-15 US-09-874-923-15 US-09-874-923-69-2 US-09-874-923-69-2 US-09-874-923-69-2 US-09-874-923-69-2 US-09-874-923-69-2 US-09-874-923-69-2 US-09-874-923-69-2 US-09-874-923-6-3 US-08-937-236-3 US-08-937-236-6 US-08-937-236-6 US-08-937-236-6	w	W					44.	4	4	4.	4	4					42	٠
	US-08-937-236-2	US-08-569-214-3	US-08-937-236-6	US-08-937-236-3	US-09-830-189C-2	US-09-073-569-2	US-09-328-352-4280	US-09-874-923-121	US-09-874-923-55	US-09-874-923-22	US-09-639-206A-55	US-09-639-206A-22	US-09-565-501A-55	-09	-09	-09	-09-022-765-	
	Z, Appl	rddy 'c	6, Appin	J, APPI	2, Appl:	2, Appl	80	121, App		-	-	-	-	-	•	22, App1	-	

## ALIGNMENTS

EWOTDNCETCTCYET

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RESULT 3
US-09-724-864-44
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GENERAL INFORMATION:
APPLICANT: Jessell, TITLE OF INVENTION: C
TITLE OF INVENTION: N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 망
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 53. Best Local Similarity 63. Matches 7; Conservative
APPLICANT: Watson, James D
APPLICANT: Murison, James D
APPLICANT: Murison, James G
ITTLE OF INVENTION: Polynucleotides, polypeptides expressed
ITTLE OF INVENTION: by the polynucleotides and methods for their use.
ITTLE OF INVENTION: by the polynucleotides and methods for their use.
ITTLE OF INVENTION: by the polynucleotides and methods for their use.
ITTLE OF INVENTION: UNMBER: US/09/724,864
CURRENT APPLICATION NUMBER: US/09/724,864
CURRENT FILING DATE: 2000-11-28
PRIOR APPLICATION NUMBER: U.S. No. 6380362 60/171,678
PRIOR FILING DATE: 1999-12-23
NUMBER: FASTSEQ for Windows Version 4.0
SOFTWARE: FASTSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 19,
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ZIP: 10036
ZIP: 10036
COMPUTER READBLE FORM:
MEDIUM TYPE: Floppy disk
MEDIUM TYPE: IBM PC compatible
TWOTTER: IBM PC pcs/MS-Dcs
TWOTTER: TOTTEM: PC-Dcs/MS-Dcs
TWOTTEM: PC-Dcs
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SEQUENCE CHARACTERISTICS:
LENGTH: 1172 amino aci
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NAME: White, John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 4002
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 278-0400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRANDEDNESS: SIR
TOPOLOGY: linear
MOLECULE TYPE: pept
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FILING DATA:
FILING DATE: January 5, 1995
CLASSIFICATION: 435
TTORNEY/AGENT --
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CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         333 WVVDSCTTCTC 343
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T: 1185 Avenue of the Americas
New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WQTDNCETCTC 12
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CLONING, EXPRESSION AND USES OF A
NOVEL SECRETED PROTEIN, F-SPONDIN
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 1;
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; LENGTH: 466
; TYPE: PRT
; ORGANISM: Mouse
US-09-724-864-44
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Best Local Similarity
Thehes 7; Conserve
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US-09-907-794A-12
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                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
                                                                                                                                                                                                                                                                                                                                                                                                          CURRENT APPLICATION NUMBER: US/09/907,794A
CURRENT FILING DATE: 2001-07-17
                                                                                                                                                                                                                                                                PRIOR APPLICATION NUMBER: US 60/146,222 PRIOR FILING DATE: 1999-07-28
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APPLICATION
                            FILING DATE: 1999-11-29
APPLICATION NUMBER: PCT/US99/28313
                                                                   APPLICATION NUMBER: PCT/US99/28214
                                                                                    FILING DATE:
                                                                                                     APPLICATION NUMBER: PCT/US99/23089
                                                                                                                        FILING DATE: 1999-09-1
                                                                                                                                         APPLICATION NUMBER: PCT/US99/21547
                                                                                                                                                            FILING DATE:
                                                                                                                                                                           APPLICATION NUMBER: PCT/US99/21090
                                                                                                                                                                                                FILING DATE:
                                                                                                                                                                                                       PILING DATE: 1999-09-08
APPLICATION NUMBER: PCT/US99/20944
                                                                                                                                                                                                                                               APPLICATION NUMBER: PCT/US99/20594
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    INFORMATION:
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Roy, Margaret Ann
Chawart, Timothy A.
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Mather, Jennie P.
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Hillan, Kenneth, J.
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Eaton, Dan L.
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Botstein, David
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Tumas, Daniel
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70.0%;
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Pred. No.
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CURRENT APPLICATION NUMBER: US/09/905,125A CURRENT FILING DATE: 2001-07-12
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR FILING DATE: 1999-07-28
PRIOR FILING DATE: 1999-07-08
PRIOR FILING DATE: 1999-07-08
PRIOR FILING DATE: 1999-09-08
PRIOR FILING DATE: 1999-09-08
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Best Local S
Matches 7
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SEQ ID NO 12
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PRIOR FILING DATE: 1999-12-20

PRIOR APPLICATION NUMBER: PCT/US00/00219

PRIOR FILING DATE: 2000-01-05

NUMBER OF SEQ ID NOS: 423
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NPPLICANT: Wood, William, I.
NITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
NITLE OF INVENTION: Acids Encoding the Same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
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TYPE: PRT
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FILING DATE: 1999-12-20
APPLICATION NUMBER: PCT/US99/30999
FILING DATE: 1999-12-20
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FILING DATE: 1999-12-02
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Stewart, ...
Stewart, ...
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Hillan, Kenneth, J.
Kljavin, Ivar J.
Mather, Jennie P.
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Stewart, Timothy A.
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Grimaldi, Christopher J.
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Filvaroff, Ellen
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                   PCT/US99/20944
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Best Local
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SEQ ID NO 12
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APPLICANT:
APPLICANT:
                                           APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
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PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
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                                     FILE REFERENCE: 10466-14
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APPLICATION NUMBER: PCT/US99/23089
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APPLICATION NUMBER: PCT/US99/30095
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                                                                                                      Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
Williams, P. Mickey
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Hillan, Kenneth, J.
Kljavin, Ivar J.
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Grimaldi, Christopher J.
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Filvaroff, Ellen
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Eaton, Dan L.
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Botstein, David
CATION NUMBER: US/09/902,775A
NG DATE: 2001-07-10
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Mather, Jennie P.
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sen, Mary E.
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Pred. No.
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APPLICATION NUMBER: PCT/US00/0441.
FILING DATE: 2000-02-22
APPLICATION NUMBER: US 60/143,048
FILING DATE: 1999-07-07

PCT/US00/04414

FILING DATE:

APPLICATION NUMBER: US 60/145,698

1999-07-

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; TYPE: PRT; ORGANISM: Homo sapiens US-09-902-775A-12
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US-08-481-968A-24
                                           US-08-481-968A-24
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CURRENT FILING DATE: 1998-06-07
NUMBER OF SEQ ID NOS: 36
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APPLICANT: Richards, Cynthia
TITLE OF INVENTION: Molecular Constructs Comprising a Carcinoembryonic Antigen (CEA
TITLE OF INVENTION: Transcriptional Regulatory Region
FILE REFERENCE: PB1087U94
FILE REFE
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PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
FEATURE:
NAME/KEY: misc_feature
NAME/KEY: misc_feature
OTHER INFORMATION: Consensus sequence B18 from transcriptional dictionary of Locker
OTHER INFORMATION: and Buzard (1990).
                                                                                                                                                                                                                            TYPE: PRT
ORGANISM: Consensus sequence
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APPLICATION NUMBER: PCT/US99/30095
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APPLICATION NUMBER: PCT/US99/23089
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Pred. No. 22;
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, NAME/KEY: misc_feature
, OTHER INFORMATION: Consensus sequence B18 from transcriptional dictionary of Locker
, OTHER INFORMATION: and Buzard (1990).
US-08-154-712B-24
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SEQ ID NO 24
LENGTH: 9
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Best Local S
Matches 7
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APPLICANT: Huber, Bri
APPLICANT: Richards,
                                                                                                                                                                                                                                                                                                                                                                                                    Patent No. 6080728
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION NUMBER: US/08/154,712B
CURRENT FILING DATE: 1993-11-19
NUMBER OF SEQ ID NOS: 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: ...
TITLE OF INVENTION: Morecample of INVENTION: Sequence PB1087US3
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                                                                                                                                                                                                                                                                                                                       APPLICANT: Mixson, ITITLE OF INVENTION: TITLE OF INVENTION: TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT
ORGANISM: Consensus sequence
CLASSIFICATION:
PRIOR APPLICATION DATA:
PRIOR APPLICATION NUMBER: US 08/608,845
FILING DATE: 16-JUL-1996
ATTORNEY/AGENT INFORMATION:
                                                                                                       MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                    COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES: 4.
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                                                                             FILING DATE:
                                                                                            APPLICATION NUMBER:
                                                                                                                                                                                                               COUNTRY:
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                                                                                                                                                                                                                                 Delaware
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                                                                                                                                                                                                                                                                1220 Market Street,
                                                                                                                                                                                                                 U.S.A.
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CARRIER: DNA COMPLEXES CONTAINING DNA
ENCODING ANTI-ANGIOGENIC PEPTIDES AND THEIR USE IN GENE
THERAPY
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87.5%;
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                                                                                            US/08/985,526
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Street, P.O. Box 2207
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Pred. No.
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Pred. No. 3e+05;
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3e+05;
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NAME: McMorrow Jr., Robert TELECOMMUNICATION INFORMATION: TELEPHONE: (302) 658-9141

TELEFAX:

(302)

658-5613

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Sequence 1, Application PC/TUS930165
GENERAL INFORMATION:
APPLICANT: Bouck, Noel P.
APPLICANT: Polverini, Peter J.
APPLICANT: Good, Deborah J.
APPLICANT: Frazier, William A.
TITLE OF INVENTION: Method and C
TITLE OF INVENTION: Inhibiting A
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Query Match
Best Local Similarity 50.0
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Best Local
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                                                                                                                                                                                                TELEFAX: (312)-456-7776 INFORMATION FOR SEQ ID NO:
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                 SEQUENCE CHARACTERISTICS:
LENGTH: 239 amino acids
TYPE: AMINO ACID
                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US/0:
FILING DATE: 24-FEB-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/0:
                                                                                                                                                                                                                                                                                                                                                                                                            CLASSIFICATION: PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                              REFERENCE/DOCKET NUMBER: 92
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                            FILING DATE: 12-JAN-1990
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
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                                                                                                    TOPOLOGY: ur
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                                                                                                                                                                                                                                                                             REGISTRATION NUMBER: 31,327
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                                                                                                                                   STRANDEDNESS:
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                                                                                                                                                                                                                                                                                              Fentress, Susan B.
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100 South Wacker Drive, Suite 960
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Inhibiting Angiogenesis
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                  Score 45; DB 5; Pred. No. 57; 1; Mismatches
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US-09-489-039A-11260
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Matches
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SEQ ID NO 11260
LENGTH: 306
TYPE: PRT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 3, Application US/08985526
Patent No. 6080728
GENERAL INFORMATION:
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PRIOR APPLICATION NUMBER: US 60/117,747
PRIOR FILING DATE: 1999-01-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILE REFERENCE: 2709.200400
CURRENT APPLICATION NUMBER:
CURRENT FILING DATE: 2000-0
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TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
TITLE OF INVENTION: PARIMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
                                     INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ORGANISM: Klebsiella pneumoniae
                                                                                                                                                           CLASSIFICATION:
CRASSIFICATION DATA:
PRIOR APPLICATION NUMBER: US 08/608,845
PILING DATE: 16-UUL-1996
FILING DATE: 16-UUL-1996
                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IHM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                              ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                              SOFTWARE: Patentin Release #1.0, CURRENT APPLICATION DATA:
                                                                                                           NAME: McMorrow Jr., Robert
TELECOMMUNICATION INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION: TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS:
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nes 8; Conserv
                                                                                                                                                                                                                                           FILING DATE:
                                                                                                                                                                                                                                                               APPLICATION NUMBER: US/08/985,526
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  CITY: Wilmington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STREET:
LENGTH: 441 amino acids
                                                                                               TELEPHONE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               208 QWLTDNGSAYTAYET 222
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                                                                                               (302) 658-9141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2709.2004001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CARRIER: DNA COMPLEXES CONTAINING DNA ENCODING ANTI-ANGIOGENIC PEPTIDES AND THEIR USE IN GENE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      46.4%; Score 45;
53.3%; Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Lodge, & Hutz
, P.O. Box 220
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 306;
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OPOLOGY:

US-08-985-526-3

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US-08-313-288B-20
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                                                                                                                                                                                                                                                                                                                                                           US-08-313-288B-20
                                                                                                                     Sequence 6461, Application US/09543681A Patent No. 6605709
                                                                                                     GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                         Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 20, Application US/08313288B Patent No. 5750502
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local (
APPLICANT: GARY BRETON
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 2709-1002-001
CURRENT APPLICATION NUMBER: US/09/543,681A
CURRENT FILING DATE: 2000-04-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: White John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 4002
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 278-0400
TELEFAX: (212) 391-0526
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  atent No. 5750502
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                        INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS: LENGTH: 1170 amino aci
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/313,288B
                                                                                                                                                                                                                                                                                                                                                                        TOPOLOGY: linear MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Jessell, TITLE OF INVENTION: TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                        STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE: January 5, 1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STREET:
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les 6; Conserv
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                                                                                                                                                                                                                                                      1 EWQTDNCETCTC 12
                                                                                                                                                                                                                                                                                       Similarity 50.6; Conservative
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T: 1185 Avenue of the Americas
New York
                                                                                                                                                                                                                                                                                                                                                                                                                          amino acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                            1170 amino acids
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1; Mismatches
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Pred. No.
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. 1e+02;
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5;
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; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: N
ORIGINAL SOURCE:
US-08-852-806-2
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US-08-852-806-2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; ORGANISM: Proteus mirabilis US-09-543-681A-6461
                                                Matches
                                                             Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION NUMBER: US 60/128,706
PRIOR FILING DATE: 1999-04-09
NUMBER OF SEQ ID NOS: 8344
SEQ ID NO 6461
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 2, Application Patent No. 5874245
GENERAL INFORMATION:
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                                                                                                                                                                                                                                                   INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS: LENGTH: 1052 amino aci
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH: 2
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                             CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/017,915
FILING DATE: 16 MAY 1996
ATTORNEY/AGENT INFORMATION:
NAME: Han, William T
                                                                                                                                                                                                                                                                                                                                   REGISTRATION NUMBER: 34,344
REFERENCE/DOCKET NUMBER: TATELECOMMUNICATION INFORMATION:
TELEPHONE: 610-270-5219
                                                                                                                                                                                        MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE: FastSEQ Version 1.5 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: SmithKline Beecham Corporation
STREET: 709 Swedeland Road
CITY: King of Prussia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Shoji Fukusumi
APPLICANT: Shuji Hinuma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION: NOVEL HUMAN G-PROTEIN COUPLED RECEPTOR
                                                                                                                                                                                                                      STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                    TELEFAX: 610-270-5090
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COUNTRY: U.S.A.
ZIP: 19406-0939
                                                                                                                                                                                                         TOPOLOGY:
                                                                                                                                                                                                                                       TYPE: amino acid
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1 EWQTDNCET----
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                                                Similarity 7; Conserv
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                                                                                                                                                                                                                                                      1052 amino acids
                                                Conservative
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                                                                                                                                          N-terminal
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50.08;
                                                          45.9%;
33.3%;
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                                            Score 44.5; DB 2;
Pred. No. 2.7e+02;
3; Mismatches 2;
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Pred. No. 79;
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                                                                          Length 1052;
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388 DWDTENCQTLETQAAHTRCQC 408

Search completed: March 11, 2004, 17:56:55 Job time: 6.32258 secs

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Result
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Perfect score:
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB
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22222222222222
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97
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   283366
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the number of results predicted by chance to have a rethan or equal to the score of the result being printed ved by analysis of the total score distribution.  SUMMARIES  Length DB ID  A34567  B1.4 2 A34567  B1.4 2 A34567  B1.4 2 A34567  SIMMARIES  SUMMARIES  Length DB ID  Bescription  A254.6 3 A42587  SA1 2 S63986  SA2 718172 1 TSHUP2  SA2 712113  SA3 6 1172 2 A42587  SA3 6 1172 1 TSHUP3  SA3 6 1172 1 TSHUP3  SA3 6 1172 1 TSHUP1  A4 8 1 328 2 T25966  A5 9 17 2 A3653  A6 9 12 2 A3653  A6 9 12 2 G96330  A6 4 1170 1 TSHUP1  A6 4 1170 1 TSHUP1  A6 4 1170 2 T27858  A6 1172 2 T21421  A6 4 1170 1 TSHUP1  A6 4 1170 1 TSHUP1  A6 4 1170 2 T27858  A6 1 171AC  A6 1 171AC  A6 1 171AC  A6 3 326 2 G71074  A6 3 372 2 G71074  A6 4 3 326 2 G71074	base :	PIR 78:* 1: pir1: 2: pir2:	**		280		
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Query  Query  100.0 114 2 A34567  97 100.0 114 2 A54663  57 58.8 884 2 T18663  57 58.8 884 2 T18663  57 58.6 1172 2 A42587  51 52.6 635 2 JP0076  47 48.5 347 2 A2587  47 48.5 347 2 A26825  47 48.5 347 2 A26825  47 48.5 1178 1 A39804  47 48.5 1478 1 A39804  48.4 1170 1 TSHUP1  48.5 46.4 1170 1 TSHUP1  48.5 46.4 1170 2 A40558  48.5 46.4 1170 2 T21421  48.5 44.8 13288 2 T03099  43 44.3 326 2 T03099  43 44.3 326 2 T03094  44 45.4 45.4 724 2 T03099  43 44.3 326 2 T03094  44 45.4 13288 2 T03099  45 44.3 1328 2 T03099  47 48.3 372 2 G71074  48 49 17 10 1 TSHUP1  48 5 44.8 13288 1 TIAC  49 1 TIAC  49 1 TIAC  49 1 1 TIAC		*			ARIES		
97 100.0 114 2 A34567  981.4 114 2 A54663  57 81.4 114 2 A54663  57 81.4 114 2 A54663  57 81.4 114 2 A54663  58 98 98 1 2 T18649  59 54.6 1376 2 S63986  50 54.6 1172 1 TSHUPP  50 51.5 665 1 T44793  51 52.6 83.5 2 J7076  51 52.6 83.6 2 T21113  50 51.5 665 1 T44793  47 48.5 330 2 T341967  48 91.5 347 2 A38463  47 48.5 347 2 A38463  47 48.5 347 2 A38463  48 46.4 1170 1 A39804  49 46.4 1170 1 TSHUP1  41 45.4 46.4 1170 2 A4558  44 45.4 1170 2 T31421  44 45.4 49.1 2 T31421  45 44.8 13288 2 T03099  43 44.3 328 2 T03099  43 44.3 328 2 JC7094  44 45.4 13288 2 T03099  45 44.3 336 2 T03099  47 48.3 372 2 G71074  48 5 1700 beta-microsen  beta-microsen  hypothetical  beta-galactos  hypothetical  beta-galactos  hypothetical  beta-galactos  hypothetical  beta-galactos  collagen alphintegumentary  integumentary  integumentary  integumentary  hypothetical  brain-specific  hypothetical	8		ы	ij	Description		
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A; Molecule type: protein
A; Residues: 21, 'X', 23-34 <WEI>A; Experimental source: gastric juice
A; Nolet, S:; Mbikay, M.; Chretien, M.
Biochim. Biophys. Acta 1089, 247-249, 1991
A; Title: Prostatic secretory protein PSP(94): gene organization and promoter sequence
A; Reference number: S16237; MUID:91274357; PMID:2054385
A; Accession: S16238

A; Molecule type: DNA

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18
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A;Molecule type: mRNA
A;Residues: 1-114 <NOL>
A;Cross references: GB:M:
C;Genetics:
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C;Superfamily: sem:
C;Keywords: semen
F;1-20/Domain: sign
F;21-114/Product: $
hypothetical
                       RESULT
T18649
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          N;Alternate names: prostatic secretory protein PSP94
C;Species: Macaca mulatta (rhesus macaque)
C;Date: 02-Unn-1995 #sequence revision 02-Unn-1995 #text_change 20-Aug-1999
C;Accession: S16237; A54663
R;Nolet, S.; Mbikay, M.; Chretien, M.
Biochim. Biophys. Acta 1089, 247-249, 1991
A;Title: Prostatic secretory protein PSP(94): gene organization and promoter sequence
A;Reference number: S16237; MUID:91274357; PMID:2054385
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A;Ross-references: EMBL:X57928; NID:g35760; PIDN:CAA41002.1; PID:g825707
A;Note: the authors translated the codon ACT for residue 54 as Trp
R;Liu, A.Y.; Bradner, R.C.; Vessella, R.L.
Cancer Lett. 74, 91-99, 1993
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C;Superfamily: seminal plasma protein
F;1-20/Domain: signal sequence #status
                                                                                                                                                                                                                                                                                                                                                                                                                                                            A;Cross-references: EMBL:X57932; NID:g38094; PIDN:CAA41003.1; PID:g829152 A;Note: the authors translated the codon ACT for residue 54 as Trp R;Nolet, S.; St-Louis, D.; Mbikay, M.; Chretien, M. Genomics 9, 775-777, 1991

A;Title: Rapid evolution of prostatic protein PSP-94 suggested by sequence A;Reference number: A54663; MUID:91244325; PMID:2037304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Title: Decreased expression of prostatic secretory protein PSP94 in A;Reference number: I52682; MUID:94115955; PMID:7506990
A;Recession: I52682
A;Status: preliminary; translated from GB/EMBL/DDBJ
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A;Molecule type: mRNA
A;Residues: I-114 <RES>
A;Cross-references: GB:S67815; NID:9460568; PIDN:AAB29732.1; PID:94605
C;Comment: This protein is a component of seminal plasma as well as se
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A;Introns: 1/3; 37/1; 72/2
C;Superfamin: 1
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A;Cross-references:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A; Molecule type: DNA
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Best Local S
Matches 11
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Best Local S
Matches 15
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                                                                                                                                                                                                                                                                                                                                                                           Cross-references: GB:M92161; NID:g342280; PIDN:AAA36903.1; PID:g342281
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                                                                                                               51
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11; Conserv
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15; Conserv
    protein B0024.14 -
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Pred. No.
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Pred. No.
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      A;Title:
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.C.;Species: Caenorhabditis elegans
-C.;Bate: 15-Oct.1999 #sequence_revision 15-Oct.1999 #text_change 15-Oct.1999
C.;Accession: T18649
                                                  beta-microseminoprotein - pig
C;Species: Sus scrofa domestica (domestic pig)
C;Date: 19-Mar-1997 #sequence_revision 19-Mar-1997
C;Accession: S41663
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                                                                                                                                                                                                                                                                                                                                                                                 C; Keywords: extr
F; 15-73/Domain:
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A;Residues: 1-658,'G',660-870,'G',872-901,'H',903-1185,'T',1187-1214,'Y',1216-1376
A;Cross-references: EMBL:X89804
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A; Introns: 46/3;
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A;Accession: T18649
A;Status: preliminary; translated from GB/EMBL/DDBJ
                R; Fernlund, P.;
Arch. Biochem. E
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Bur. J. Blochem. 234, 59-65, 1995
A;Title: Characterization of two genes coding for a similar four-cysteine motif A;Reference number: S63985; MUID:96096722; PMID:8529669
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       collagen alpha 5 chain - sea urchin (Strongylocentrotus purpuratus) C;Species: Strongylocentrotus purpuratus (purple urchin) C;Date: 20-Jul-1996 #sequence_revision 08-Nov-1996 #text_change 25-JC;Accession: S63986; S64638
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; Gene: COLP5alpha
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Reference number: A;Accession: S64638
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  submitted to the EMBL Data Library, July 1995
A;Reference number: S64637
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Cross-references: EMBL:Z71178; PIDN:CAA94886.1; GSPDB:GN00023; CESP:B0024.
A;Experimental source: clone B0024
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A;Residues: 1-1376 <EXP>
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A; Residues: 1-884 <WIL>
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nin: von Willebrand factor type C repeat homology <VWC>
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8; Conserv
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                   Granberg, L.B.; Roepstorff, P
Biophys. 309, 70-76, 1994
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Pred. No.
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A;Description: participates in cell migration and adhesion, and in platelet aggregation C;Superfamily: thrombospondin 1; EGF homology; thrombospondin type 1 repeat homology; vc C;Keywords: beta-hydroxyasparagine; calcium binding; cell adhesion; glycoprotein; trimer F;1-18/Domain: signal sequence #status predicted <SIG> F;19-1172/Product: thrombospondin 2 #status predicted <MAT> F;39-317/Domain: von Willebrand factor type C repeat homology <VWC> F;380-491/Domain: thrombospondin type 1 repeat homology <THR1> F;436-492/Domain: thrombospondin type 1 repeat homology <THR2> F;436-492/Domain: thrombospondin type 1 repeat homology <THR3> F;436-492/Domain: EGF homology <EGF1> F;553-588/Domain: EGF homology <EGF1> F;553-588/Domain: EGF homology <EGF1> F;553-691/Domain: EGF1> F;
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A;Residues: 1-91 <FER>
C;Superfamily: seminal plasma protein
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A; Accession: S41663
A; Status: preliminary
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A;Experimental source: fibroblast
A;Note: sequence extracted from NCBI backbone (NCBIN:95091, NCBIP:95096)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Residues: 1-1172 <LAB>
A;Cross-references: GB:L12350; NID:g307505; PIDN:AAA03703.1;
R;LABell, T.L.; Milewicz, D.J.; Disteche, C.M.; Byers, P.H.
Genomics 12, 421-429, 1992
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Genomics 17, 225-229, 1993
                                                                                                                                                                                                                                                                                  F;928-930/Region: cell attachment (R-G-D) motif
F;151,316,330,457,584,710,1069/Binding site: carbohydrat
F;157-226/Disulfide bonds: #status predicted
F;266,270/Disulfide bonds: interchain #status predicted
F;612/Modified site: erythro-beta-hydroxyasparagine (Asr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           C; Function:
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C; Complex: homotrimer, di
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A;Cross-references: GDB:128789; OMIM:188061
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A;Residues: 560-1172 <LA2>
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;Date: 19-May-1995 #sequence_revision 03-Aug-1995 #text_change 13-Aug-1999
;Accession: A47379; A42173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        hrombospondin 2 precursor
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Pred. No. 1.
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Pred. No. 16;
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RESULT

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A Cross-references: GB:M64866; NID:g201994; PIDN:AAA40432.1; PID:g20:C;Superfamily: thrombospondin 1; EGF homology; thrombospondin type 1 C;Keywords: calcium binding; glycoprotein F;319-377/Domain: von Willebrand factor type C repeat homology <VWC>F;380-431/Domain: thrombospondin type 1 repeat homology <THR1>F;436-492/Domain: thrombospondin type 1 repeat homology <THR2>F;436-499/Domain: thrombospondin type 1 repeat homology <THR3>F;433-549/Domain: thrombospondin type 1 repeat homology <THR3>F;453-88/Domain: EGF homology <EGF1>F;652-691/Domain: EGF homology <EGF1>F;652-691/Domain: EGF homology <EGF>
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R;Laherty, C.D.; O'Rourke, K.; Wolf, F.W.; Katz, R.; Seldin, M.F.; Dixit, V J. Biol. Chem. 267, 3274-3281, 1992
A;Title: Characterization of mouse thrombospondin 2 sequence and expression A;Reference number: A42587; MUID:92147683; PMID:1371115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     C;Species: Gallus gallus (chicken)
C;Date: 24-Feb-1995 #sequence_revision 24-Feb-1995 #text_change 13-Aug-1999
C;Date: 24-Feb-1995 #sequence_revision 24-Feb-1995 #text_change 13-Aug-1999
C;Accession: A38963; JP0076
R;Matsuhashi, S.; Noji, S.; Koyama, E.; Myokai, F.; Ohuchi, H.; Taniguchi, Spev. Dyn. 203, 212-222, 1995
Dev. Dyn. 203, 212-222, 1995
A;Title: New gene, nel, encoding a Mr 93K protein with EGF-like repeats is specific number: A38963; MUID:95383734; PMID:7655083
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A;Note: sequence extracted from NCBI backbone (NCBIP:81502)
R;Bornstein, P.; O'Rourke, K.; Wikstrom, K.; Wolf, F.W.; Katz, R.; Li, P.; Dixit, V.
J. Biol. Chem. 266, 12821-12824, 1991
A;Title: A second, expressed thrombospondin gene (Thbs2) exists in the mouse genome.
A;Reference number: A39851; MUID:91302287; PMID:1712771
                                                                                                                                                                                                                                                                                                                          A;Cross-references: DDBJ:D45365
A;Experimental source: 9-day embryo
A;Experimental source: 9-day embryo
R;Matsuhashi, S.; Noji, S.; Koyama, E.; Myokai, F.; Ohuchi, H.; Taniguchi, S.; Hori,
submitted to JIPID, January 1995
A;Description: A new gene, nel, encoding a Mr 93K protein with EGF-like repeats is st
A;Reference number: JP0076
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A; Residues: 1-873 <BOR>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   thrombospondin
                                                           F;444-480/Domain:
                                                                                 A;Experimental source: 9-day embryo C;Superfamily: von Willebrand factor type C r F;273-333/Domain: von Willebrand factor type F;395-592/Region: EGF-like repeats
                                                                                                                                                                                                                                     A; Molecule type: mRNA
A; Residues: 1-835 < MA2>
                                                                                                                                                                                                            A;Cross-references: DDBJ:D45365
                                                                                                                                                                                                                                                                                                    A; Accession:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Molecule type: mRNA
A;Residues: 1-835 <MAT>
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Matches
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;Residues: 1-1172 <LAH>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ;Accession: A38963
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                         486-521/Domain:
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                                                                                                                                                                                                                                                                                                    JP0076
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homology <EGF>
homology <EGF2>
                                                           homology
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                                                              < EGF1 >
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Pred:
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                                                                                                                       repeat homology; EGF homology; C repeat homology
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             and expression during cell
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C;Geneti
A;Gene:
C;Comple
C;Functi
A;Descri
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                                                                                                                                                                                   A;Description: EC 3.2.1.23 [validated, MUID:97201076]
A;Note: cleaves several different beta-galactoside sul C;Superfamily: Bacillus beta-galactosidase
C;Keywords: glycosidase: homodimar: hvdro?...
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A;Residues: 1-665 <HOL>
A;Cross-references: EMBL:U70664; PIDN:AAB40123.1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               beta-galactosidase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; Map position: X
A; Introns: 71/3; 137/2; 192/3; 217/3; 241/2;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    hypothetical protein F19C6.3 - Caenorhabditis elegans C;Species: Caenorhabditis elegans C;Species: Caenorhabditis elegans C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 18-Feb-2000 C;Accession: T21113
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                                                                                                                        Query Match
Best Local S
Matches 11
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;Species: Haloferax alicantei
;Date: 18-Feb-2000 #sequence_revision 18-Feb-2000 #text_change 18-Feb-2000
;Accession: T44793
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ;Molecure (FC);
;Residues: 1-429 (WIL);
(Cross-references: EMBL:Z48006; PIDN:CAA88048.1;
Progrimental source: clone F19C6
                                                                                                                                                                              Superfamily: Bacilius :
Keywords: glycosidase;
                                                                                                                                                                                                                                                 Function:
                                                                                                                                                                                                                                                                Complex: homodimer [validated, MUID:97201076]
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8; Conserv
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                                                              WQTDNEFGCHETVTCY 152
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                                                                                           WOTDN---C-ETCTCY
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Pred. No.
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Pred. No. 19;
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Pred. No. 17;
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S.; Moule, S.; O'Gaora, P.

Nature 413, 848-852, 2001

A;Authors: Parry, C.; Quail, M.; Rutherford, K.; Simmonds, M.;

A;Title: Complete genome sequence of a multiple drug resistant

A;Reference number: AB0502; MUID:21534947; PMID:11677608

A;Accession: AC0825
                                                                                                                                                                                                                 anaerobic sulfite reductase chain A (EC 1.8.2.-) [imported] - Salmonella en C;Species: Salmonella enterica subsp. enterica serovar Typhi A;Nore: this species has also been called Salmonella typhi C;Date: 09-Nov-2001 #sequence_revision 09-Nov-2001 #text_change 18-Nov-2002 C;Accession: AC0825
                                                                                                                                                                                                                                                                                                        RESULT 13
AC0825
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A;Experimental source: strain JI
C;Genetics:
A;Cross-references:
C;Genetics:
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A38453
                              A; Molecule type: DNA
A; Residues: 1-347 < PAR>
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A; Residues: 1-347 < HUA>
A; Cross-references: GB:
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C;Superfamily: Epstein-Barr virus
                                                                                                                                                                                                 R;Parkhill, J.; Dougan,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            R; Huang, C.J.; Barrett, E.L.
J. Bacteriol. 173, 1544-1553, 1991
A; Title: Sequence analysis and expression of the Salmonella
A; Reference number: A38453; MUID:91139599; PMID:1704886
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                anaerobic sulfite reduction protein A -
C;Species: Salmonella typhimurium
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A; Accession: T41967
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C;Accession: T41967
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C;Species: human herpesvirus
A;Variety: strain JI
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                                                              Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
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Best Local :
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Best Local
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                                                                                                                                                                                   P.; Cromin,
                GB:AL513382; PIDN:CAD02751.1; PID:g16503762; GSPDB:GN00176
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GB:M57706; NID:g153881;
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on and analysis of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 human herpesvirus 7
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Pred. No.
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Pred. No. 28;
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                                                                                                                                                                                   K.D.; Thomson, N.R.; Pickard,
Davis, P.; Davies, R.M.; Dowd,
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29;
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RESULT 15
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C;Keywords: oxidoreductase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          R; Lawler, J.; Duquette, M.; Ferro, P.
J. Biol. Chem. 266, 8039-8043, 1991
A;Title: Cloning and sequencing of chicken thrombospondin.
A;Reference number: A33804; MUID:91217026; PMID:2022631
A;Accession: A33804
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           thrombospondin precursor - chicken
C;Species: Gallus gallus (chicken)
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
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,Status: preliminary

,Molecule type: mRNA

,Residues: 1-1178 <LAW>

,Residues: 1-1178 <LAW>

,Cross-references: GB:M60853; NID:g212763; PIDN:AAA51437.1; PID:g212

;Superfamily: thrombospondin 1; EGF homology; thrombospondin type 1

;325-383/Domain: von Willebrand factor type C repeat homology <TWC>

7,386-437/Domain: thrombospondin type 1 repeat homology <THR1>

7,442-498/Domain: thrombospondin type 1 repeat homology <THR2>

7,499-555/Domain: thrombospondin type 1 repeat homology <THR3>

7,658-697/Domain: EGF homology <EGFP>
                                                                                                                                                                                 ;Molecule type: DNA ;Residues: 1-381,'DT',384-677,'N',679-1010,'L',1012-1822 <EXW>;Cross-references: EMBL:X89806
                                                                                                                                                                                                                                                                                                                                                                                                                                               Exposito, J.Y.; Boute, N.; Deleage, G.; Garrone, R. ur. J. Biochem. 234, 59-65, 1995
ur. J. Biochem. 234, 59-65, 1995
Title: Characterization of two genes coding for a similar four-cysteine motif of the Reference number: S63985; MUID:96096722; PMID:8529669
PAccession: S63985
Query Match
Best Local Similarity
Matches 6; Conserv
                                                                                                ;Gene: COLL2alpha
;Introns: 33/1; 1:
;48-106/Domain: v
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                           Status: nucleic acid sequence not shown
                                                                                                                                                                                                                                                                                                                                  Exposito, J.Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              llagen alpha 2 chain precursor - sea urchin (Strongylocentrotus purpuratus) (fragment) Species: Strongylocentrotus purpuratus (purple urchin) Date: 20-Jul-1996 #sequence revision 01-Nov-1996 #text_change 15-Sep-2003 Accession: S63985; S64637
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42.9%; Pred. No. 74;
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       0;
  Score 47; DB 2; Length 1822; Pred. No. 1e+02; 0; Mismatches 5; Indels
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Search completed: March 11, 2004, 17:55:59
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Copyright (c) 1993 - 2004 Compugen Ltd.
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Q28767 papio anubi
Q9rn68 desulfovibr
Q88v80 lactobacill
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P49612
P30725
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Q86qi5
P25142
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P76548 escherichia
Q8kdt4 chlorobium
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clostridium
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Gallus gall
2 oncorhynchu
4 salmonella
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8 oncorhynchu
10 brachydanio
6 brachydanio
7 homo sapien
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P17562 arabidopsis Q96552 catharanthu P43281 lycopersico	P43280 lycopersico O22338 musa acumin P50300 pinus banks		Q96553 catharanthu P43282 lycopersico P93254 mesembryant
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## LIGNMENTS

RA R	RN RT RA	RA R	RR	RP RAX	2 × 2 2 2 2 2	PE DE
	SEQUENCE FROM N.A.  SEQUENCE FROM N.A.  MEDILINE=90073664; PubMed=2590204;  Ulvsbaeck M., Lindstroem C., Weiber H., Abra Lundwall A.;  "Molecular cloning of a small prostate prote microsememoprotein, PSP94 or beta-inhibin, a transcripts in non-genital tissues."; Biochem. Biophys. Res. Commun. 164:1310-1315 [5]	SEQUENCE MEDLINE=9 Green C.B "Cloning microsemi Biochem.			MSMB OR PRSP. Homo sapiens (Human). Eukaryota; Metazoa; Chordata; Mammalia; Eutheria; Primates; NCBI_TaxID=9606;	SULT 1  HUMAN  MSHEUMAN  MSMB HUMAN  POSITS; P11  01-AUG-1988  10-OCT-2003  Beta-micros  protein) (F  beta-inhibi

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Strausberg R.D., Cellins F.S., Wagner L., Schuler G.D., R. Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D., R. Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K., R. Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K., R. Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K., R. Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K., R. Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F., R. Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F., R. Altschul S., Warusina K., Farmer A.A., Rubin G.M., Hong L., Range C., Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J., R. Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J., R. Raha S.S., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H., R. Raha S.S., Warny D.M., Sodergren B.J., Lu X., Gibbs R.A., Villalon D.K., Muzny D.M., Sodergren B.J., Lu X., Gibbs R.A., Villalon D.K., Muzny D.M., Sodergren B.J., Lu X., Gibbs R.A., Villalon D.K., Muzny D.M., Sodergren B.J., Lu X., Gibbs R.A., Whiting M., Madan A., Young A.C., Shevchenko Y., Boulfard G.G., R. Whiting M., Madan J.W., Green E.D., Dickson M.C., R. Butterfield Y.S.M., Kzzywinski M.I., Schmutz J., Myers R.M., Butterfield Y.S.M., Kzzywinski M.I., Skalska U., Smailus D.E., Schnetz A., Schein J.S., Jones S.J.M., Marra M.A., "Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences.", 1916899-16903(2002).
                                                                                                                                       PEBS PECC. [12]
[12]
SEQUENCE OF 21-50 AND 113-114.
SEDLINE-92028964; PubMed-1930232;
Liang Z.G., Kamada M., Koide S.S.;
Liang Z.G., Kamada M., the immunoglobulin binding factor and "Structural identity of immunoglobulin binding factor and "Structural identity of human seminal plasma.";
Commun. 180:356-359(1991).
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Ohkubo I., Tada T., oc
"Human seminal plasma
"Human seminal plasma
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SEQUENCE OF 2-72 FROM N.A.
MEDLINE=99421644; PubMed=10491085;
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TISSUE=Prostate;
MEDLINE=96032566;
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Tsuda R., Hara M.;
"The amino acid se
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"New world, but not old world, monkeys
beta-microseminoprotein.";
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                                                      MEDLINE=95401076; PubMed=7671139; Ohkubo I., Tada T., Ochiai Y., Ue
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                                                                                                                                                                                                                                                                                                                                                                   Lett. 175:349-355(1984).
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Supta M., Clarke M.W.;

PSP94) expression
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11:1041-1047(1995).
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Feingold E.A., Grouse L.H.,
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  chiai Y., Ueyama H., Eimoto T., Sasaki M.;
beta-microseminoprotein: its purification,
immunohistochemical localization.";
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"Newly identified proteins in human nasal lavage fluid from non-smokers and smokers using two-dimensional gel electrophoresis and peptide mass fingerprinting.";

Proteomics 2:112-120(2002).
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GO: GO:0005615; C:extracellular space;
GO; GO:0005634; C:nucleus; TAS.
InterPro; IPR008735; PSP94.
Pfam; PF05925; PSP94; 1.
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MISCELLANBOUS: SPECIFIC RECEPTORS FOR THIS SIMILARITY: Belong.
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01-NOV-1997 (Rel. 35, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Beta-microseminoprotein precursor (Prostate secreted;
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secretory protein of 94 amino ac
DNA Cell Biol. 16:627-638(1997).
-!- FUNCTION: Inhibits the secre
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Chin J.L.;
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Papio anubis (Olive baboon).
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Mammalia; Eutheria; Primates; Catarrhini; Cercopithecidae;
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between
                                                                                                                                                                                                                                                                                                                  between the Swiss Institute of Bioinformatics and the EMBL outstation -
the European Bioinformatics Institute. There are no restrictions on its
use by non-profit institutions as long as its content is in no way
modified and this statement is not removed. Usage by and for commercial
entities requires a license agreement (See http://www.isb-sib.ch/announce/
or send an email to license@isb-sib.ch).
                                                                                                                                    SIGNAL
                                                                                                                                                                                  InterPro; IPR002322; Cyt CIII.
InterPro; IPR002345; CytC heme_Bs
Pfam; PF02085; Cytochrome CIII; 1
PRINTS; PR00609; CYTOCHROMEC3.
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"The primary and three-dimensional structures optochrome c from Desulfovibrio desulfuricans member of the Hmc family.",
Structure 7:119-130(1999);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             primary sequence determination, and modelling studies of its in
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STRAIN=ATCC 27774;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A. STRAIN=ATCC 27774; MEDLINE=99400423;
                                                                                                                                                      Electron
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MEDLINE=20022508;
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Bacteria; Proteobacteria; De
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SUBUNIT: Monomer.
SUBCRILIULAR LOCATION: Periplasmic.
SUBCRILIULAR OCCATION: ARRANGED
PTM: BINDS 9 HEME GROUPS: ARRANGED
THE EXTRA HEME 4 IS LOCATED ASYMMET
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15-MAR-2004 (Rel. 43, Last annotation update)
15-MAR-2004 (Rel. 43, Last annotation update)
UDP-N-acetylmuramoylalamine--D-glutamate ligase
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Matches 6
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HAMAP; MF 00639; -; 1.
InterPro; IPR000713; Mur_ligase.
InterPro; IPR004101; Mur_ligase_C.
Pfam; PF0125; Mur_ligase; 1.
Pfam; PF02875; Mur_ligase; 1.
Pfam; PF02875; Mur_ligase; 1.
Pfam; PF02875; Mur_ligase; Cell wall; Cell division; Ligase; ATP-binding; Complete proteome.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TISSUE=Placenta; Missinen M., Sainio K., Byers M., Eddy R., Vuolteenaho R., Nissinen M., Sainio K., Eyers M., Eddy R., Hirvonen H., Shows T.B., Sariola H., Engvall E., Tryggvason K.; "Human laminin M chain (merosin): complete primary structure, "Human assignment, and expression of the M and A chain in l
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TAMA2 HUMAN STANDARD; PRT; 3110 AA.
P24063; Q14736; Q93072;
01-MAR-1992 (Rel. 21, Created)
01-NOV-1997 (Rel. 35, Last sequence update)
15-MAR-2004 (Rel. 43, Last annotation update)
Laminin alpha-2 chain precursor (Laminin M chain)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its
                                                                         Ehrig K., Leivo I., Argraves "Merosin, a tissue-specific laminin-like protein."; Proc. Natl. Acad. Sci. U.S.A
                                                                                                                                                                                                                                                                                   Zhang X., Vuolteenaho R., Tryggvason K.; "Structure of the human laminin alpha2-chain affected in congenital muscular dystrophy."; J. Biol. Chem. 271:27664-27669(1996).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                MEDLINE=90238994; PubMed=2185464; Ehrig K., Leivo I., Argraves W.S.,
                                                                                                                                                                                                                                     SEQUENCE OF 1981-3110 FROM N.A.,
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                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.
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  VARIANTS GLN-545; HIS-619;
Panicker S.G., Mendell J.T.
                                                                                                                                                                                                          TISSUE=Placenta;
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Primates;
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Tezak Z., Prandini P., Boscaro M., Marin A., Devaney J., Marino M.,

A Panin M., Trevisan C.P., Park J., Tyson W., Finkel R., Garcia C.,

Angelini C., Hoffman E.P., Pegoraro E.,

"Clinical and molecular study in congenital muscular dystrophy with

partial laminin alpha-2 (LAMA2) deficiency.";

Hum. Mutat. 21:103-111(2003).

C. -!- FUNCTION: Binding to cells via a high affinity receptor, laminin

C. is thought to mediate the attachment, migration and organization

of cells into tissues during embryonic development by interacting

c. vith other extracellular matrix components.

C. -!- SUBUNIT: Laminin is a complex glycoprotein, consisting of three

cd different polypeptide chains (alpha, beta, gamma), which are bound

to each other by disulfide bonds into a cross-shaped molecule

comprising one long and three short arms with globules at each

can The alpha-2 chain is a subunit of laminin-2 (merosin) and

can be applied to the subunit of laminin-2 (merosin) and
                                                                                                                                                                                                                                                                                                       entities
or send a
                                                                                                                                                                                                                                                                                                                                                                                                                                                 This SWI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cardiac muscle, panoreas, lung, spleen, kidney, adrenal gland, skin, testis, meninges, choroid plexus, and some other regions the brain; not in liver, thymus and bone.

DOMAIN: The alpha-helical domains I and II are thought to intera with other laminin chains to form a coiled coil structure.

DOMAIN: Domains VI, IV and G are globular.

DISEASE: Defects in LAMA2 are the cause of merosin-deficient congenital muscular dystrophy type 1A (MDCIA) [MIM:667855]. MDCI is characterized by difficulty walking, hypotonia, proximal weakness, hyporeflexia, and white matter hypodensity on MRI.

SIMILARITY: Contains 1 laminin N-terminal domain.

SIMILARITY: Contains 2 laminin IV domains.

SIMILARITY: Contains 2 laminin G-like domains.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            VARIANTS MDC1A TYI
MEDLINE=22439669;
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[7]
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MEDLINE=21476011; PubMed=11591858;
He Y., Jones K.J., Vignier N., Morgan G
Estournet Mathiaud B., Hori H., Mizuta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Panicker S.G., Mendell J.T., Chen
Marzluf G.A., Amato A.A., Mendell
Hum. Mutat. 13:340-340(1999)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Marzluf G.A., Amato A.A., Mendell "Novel single base polymorphisms at the laminin 2-chain coding region Hum. Mutat. 13:174-174(1999).
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                                                                                                                                                                                                                                                                                                                                                      s SWISS-PROT entry is copyright. It is produced through a collaboration ween the Swiss Institute of Bioinformatics and the EMBL outstation - European Bioinformatics Institute. There are no restrictions on its by non-profit institutions as long as its content is in no way ified and this statement is not removed. Usage by and for commercial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        membranes (major component).
TISSUE SPECIFICITY: Placenta, striated
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SUBCELLULAR LOCATION: Extracellular;
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d by RNA/SSCP analysis.";
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GO; GO:0005604; C:basement membrane; TAS
GO; GO:0005198; F:structural molecule ac
GO; GO:0007517; P:muscl development; TA
InterPro; IPR008985; COnA like_lec_gl.
InterPro; IPR008999; EGF like.
InterPro; IPR008979; Gallbind like.
InterPro; IPR008979; Gallbind like.
InterPro; IPR000034; Laminin B.
InterPro; IPR001791; Laminin EGF.
InterPro; IPR001791; Laminin G.
InterPro; IPR008211; Laminin G.
InterPro; IPR008211; Laminin B; 2.
Pfam; PF00052; laminin B; 2.
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laminin_G; 5.
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15-JUL-1999 (Rel. 38,
15-JUL-1999 (Rel. 38,
15-MAR-2004 (Rel. 43,
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van Dorsselaer A., Bulet
                                                                                                                                                                                                                                                                                   SEQUENCE, AND CHARACTERIZATION.
STRAIN-Hector; TISSUE-Hemolymph;
MEDLINE-97094646; PubMed-8939880;
                                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoa; Arthropoda; Chelicerata; Arachnida; Buthoidea; Buthidae; Androctonus.
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Laminin EGF-like domain;
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                                                                                                                             SEQUENCE
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                                                                                                                                                                                                                                                                                                                                               Androctonus australis (Sahara scorpion)
                                                                                                                                                                       PROSITE;
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                          LEIQH
                                                                                                                                                                Antibiotic.
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                                                                                                                                                                                                                                                                                                                                                       kDa defensin.
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I; SM00281; LamB; 2.
I; SM00282; LamG; 5.
I; SM00136; LamMT; 1.
ITE; PS00136; LamMT; 1.
ITE; PS00186; EGF 1; 11.
ITE; PS01186; EGF 2; 3.
ITE; PS0128; LAMININ TYPE EGF; 1.
ITE; PS0025; LAMININ TYPE EGF; 1.
Oprotein; Basement membrane; Extroprotein; Basement membrane; Extr
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1; Laminin_B;
EGF_Lam; 15.
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PROSITE; Parting Insect immunity; I
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MEDLINE=93326112;
Cociancich S., Goy
Hoffmann J.A.;
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01-DEC-1992
01-DEC-1992
10-OCT-2003
                                                                                                                                                                                                                                                                                                                          MEDLINE=93049350; ...... Bulet P., Cociancich S., Reuland m., -- Van Dorsselaer A., Hetru C., Hoffmann J.A.; van Dorsselaer A. defensin mediates the inducible antimate insect defensin mediates the inducible antimate in the dragonfly Aeschna cyanea (
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-- FUNCTION: Antibacterial protein against Gram-positive bacteria;
-- FUNCTION: Amenbrane-permeabilization of these cells.
-- SUBCELLULAR LOCATION: Secreted.
-- SIMILARITY: Belongs to the arthropod defensin family. Subfamily
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10-OCT-2003 (Rel. 42, Last annotation update)
4 kDa defensin (Antibacterial 4 kDa peptide).
Leiurus quinquestriatus hebraeus (Yellow scorpion).
Eukaryota; Metazoa; Arthropoda; Chelicerata; Arachnida; Scorpiones;
Buthoidea; Buthidae; Leiurus.
                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=93049356; PubMed=1425705;
MEDLINE=93049356; PubMed=1425705;
MEDLINE=93049356; PubMed=1425705;
MEDLINE=93049356; PubMed=1425705;
MEDLINE=93049356; PubMed=1425705;
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Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Palaeoptera; Odonata; Anisoptera; Aeshnidae; Aeshna.
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Antibiotic.
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Biochem. Biophys.
      InterPro; IPR001542; Defensin_anpod.
Pfam; PF01097; Arthro defensin; 1.
PROSITE; PS00425; ARTHROPOD_DEFENSINS;
Insect immunity; Antibiotic.
DISULFID 4 26
                                                                                                                                                  -!- SUBCELLULAR LOCA'
-!- SIMILARITY: Beloi
PIR; S27242; S27242.
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1097; Arthro_defensin; 1.
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25; ARTHROPOD_DEFENSINS;
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Hiates the inducible
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yffon M., Bontem
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entities requires a license agreement (See http://www.isb
or send an email to license@isb-sib.ch).
                                                                                                                                                                       or send
                                                                                                                                                                                                                                                 -!- SUBCELLULAR LOCATION: Secreted.
-!- TISSUE SPECIFICITY: Hemolymph.
-!- MASS SPECIROMETRY: MM=4228.66; METHOD=MALDI; RANGE=37-74.
-!- SIMILARITY: Belongs to the arthropod defensin family. Subfamily
                                                                                                                                                                                                                                                                                              Trick, Dermacentor variabilis.";
Insect Biochem, Nol. Biol. 31:857-865(2001)
-!- FUNCTION: Antibacterial activity agains
negative bacteria.
                                                                                                                                                                                                                                                                                                                                   TISSUE=Hemolymph;
MEDLINE=21332638; PubMed=11439245;
Johns R., Sonenshine D.E., Hynes W.L.;
"Identification of a defensin from the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Dermacentor variabilis (American dog tick).
Eukaryota; Metazoa; Arthropoda; Chelicerata; Arachnida; Acari;
Parasitiformes; Ixodida; Ixodidae; Dermacentor.
                                                                                                             Antibiotic;
                                                                                                                                                     EMBL; AY181027; AAO24323.1;
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Pfam; PF01097; Arthro_defensin; 1.
PROSITE; PS00425; ARTHROPOD_DEFENSIN
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15-MAR-2004 (Rel.
15-MAR-2004 (Rel.
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EMBL; X57935; CAA41003.1; J
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01-MAY-1992 (Rel. 22, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Beta-microseminoprotein precursor (Prostate s
                                                                                                                                                                                                                                           entities requires a license agreement (S or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                              the European Bioinformatics Institute. The use by non-profit institutions as long modified and this statement is not removed.
                                                                                                                                                                                                                                                                                                                                                               MEDLINE=91244325; PubMed=2037304; Nolet S., St Louis D., Mbikay M., "Rapid evolution of prostatic prot divergence between rhesus monkey a Genomics 9:775-777(1991).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MSMB_MACMU
P25142;
                                                                                                                                                                                                                                                                                                                                                                                                                                      sequence in rhesus
Biochim. Biophys. 1
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Mammalia; Eutheria; Prin
Cercopithecinae; Macaca.
                                                                                                                                                                                                                                                                                              between
                                                                                                                                                                                                                                                                                                     This SWISS-PROT entry is copyright.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nolet S., Mbikay M., Chretien M.; "Prostatic secretory protein PSP94:
                                                                                                                                                                                                                                                                                                                          -!- SIMILARITY: Belongs to the
                                                                                                                                                                                                                                                                                                                                                      -!- FUNCTION: Inhibits the secretion of FSH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=91274357;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Macaca mulatta
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Acta 1089:247-249(1991)
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28-FBB-2003 (Rel. 41, Last annotation update)
Holo-[acyl-carrier protein] synthase (EC 2.7.8.7)
(4'-phosphopantetheinyl transferase acpS).
                                                                                       ECOLI
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Himmelreich R., Hilbert H.,
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STRAIN=ATCC 29342
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Bacteria; Firmicutes;
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30-MAY-2000 (Rel.
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30-MAY-2000
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InterPro; IPR0028278; 4-PPT_transf.
InterPro; IPR002828; ACPS.
InterPro; IPR004568; Pantethn_trn.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EMBL; AE000052; AAB96186.1; PIR; S73864; S73864.
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                                                                                                                                                                                                                                                                                                                                                              SEQUENCE
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Transferase; Lipid synthesis; Fatty acid biosynthesis;
                                                                                                                                                                                                                                                                                                                                                                                                                              Complete
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    s SWISS-PROT entry is copyright. It is produced through ween the Swiss Institute of Bioinformatics and the EN European Bioinformatics Institute. There are no resti
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FUNCTION: Transfers the 4'-phosphopantetheine moiety from coenzyn A to a Ser of acyl-carrier protein (By similarity).

CATALYTIC ACTIVITY: COA + apo-[acyl-carrier protein] = adenosine 3',5'-bisphosphate + holo-[acyl-carrier protein].

COPACTOR: Magnesium (By similarity).

SUBGELLULAR LOCATION: Cytoplasmic (By similarity).

SUBGELLULAR LOCATION: Cytoplasmic (By similarity).
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MAGNESIUM (BY SIMII
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C STRAIN=TLS / ATCC 49652 / DSM 12025;

C STRAIN=TLS / ATCC 49652 / DSM 12025;

X MEDLINE=22103685, PubMed=12093901;

X MEDLINE=22103685, PubMed=12093901;

X MEDLINE=22103685, PubMed=12093901;

X MEDLINE=22103685, PubMed=12093901;

A Dodson R.J., Nelson K.E., Paulsen I.T., Nelson W.C., Haft D.H.,

A Dodson R.J., Debby R., Gwinn M.L., Nelson W.C., Haft D.H., Yang F.,

A Holt I., Umayam L.A., Mason T., Brenner M., Shea T.P., Parksey D.,

A Nierman W.C., Feldblyum T.V., Hansen C.L., Craven M.B., Radune D.,

A Nierman W.C., Feldblyum T.V., Hansen C.L., Craven M.B., Radune D.,

A Venter J.C., Tottelin H., Bryant D.A., Fraser C.M.;

A Venter J.C., Tettelin H., Bryant D.A., Fraser C.M.;

A Venter J.C., Tettelin H., Bryant D.A., Fraser C.M.;

The complete genome sequence of Chlorobium tepidum TLS, a

T "The complete genome sequence of Chlorobium tepidum TLS, a

T photosynthetic anaerobic green-sulfur bacterium.";

L Proc. Natl. Acad. Sci. U.S.A. 99:9509-9514(2002).

C -!- CATALYTIC ACTIVITY: ATP + 5-amino-1- (5-phospho-D-

C - Prince T. A. Statistical Complete Sci. U.S.A. 99:9509-9514(2002).
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Hypothetical
SEQUENCE 13
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10-OCT-2003
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STRAIN-KI2 / MG1655;
MEDLINE=97426617; PubMed=9278503;
Blattner F.R., Plunkett G. III, Bloch C.F.
Riley M., Collado-Vides J., Glasner J.D.,
Gregor J., Davis N.W., Kirkpatrick H.A.,
Mau B., Shao Y.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10-OCT-2003 (Rel. 42, Created)
10-OCT-2003 (Rel. 42, Last sequence update)
10-OCT-2003 (Rel. 42, Last annotation update)
Phosphoribosylaminoimidazole-succinocarboxamide
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Hypothetical prot
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Enterobacteriaceae; Escherichia
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                          ribosyl)imidazole-4-carboxylate + L-aspartate = ADP + phosphate (S)-2-[5-amino-1-(5-phospho-D-ribosyl)imidazole-4-
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cein; Complete
1; 14394 MW;
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Pred. No. 12;
0; Mismatches
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B4FCA92101994514 ·CRC64;
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(See http://www.isb-sib
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YF63_SYNY3
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Best Local
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16-OCT-2001
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HAMAP; MF 00137; -; 1.

THERPOOLOGIS, SAICAR SYNT; 1.

Pfam; PF01259; SAICAR SYNT; 1.

PTCODOM; PD03043; SAICAR SYNT; 1.

PTCORPAMS; TIGR00081; DUCC; 1.

PROSITE; PS010537; SAICAR SYNTHETASE 1; FALSE NEG.

PROSITE; PS01058; SAICAR SYNTHETASE 2; 1.

PROSITE; PS01058; SAICAR SYNTHETASE 2; 1.

PROSITE; PS01058; SAICAR SYNTHETASE 2; 1.

PRUFINE biosynthesis; Ligase; Complete proteome.

PUTINE biosynthesis; Ligase; Complete proteome.

SEQUENCE 235 AA; 26540 MW; 807AD30CD101BF4F CRC64;
                                                                                                                                                                                                                                                                                                                                       MEDLINE-97061201; PubMed=8905231;
Kaneko T., Sato S., Kotani H., Tanaka A., Asamizu E., Nakamura Y.,
Miyajima N., Hirosawa M., Sugiura M., Sasamoto S., Kimura T.,
Miyajima N., Hatsuno A., Muraki A., Nakazaki N., Naruo K., Okumura
Shimpo S., Takeuchi C., Wada T., Watanabe A., Yamada M., Yasuda M.
InterPro; IPR005581; Fructosamin kin.
Pfam; PF03881; Fructosamin kin; I.
Hypothetical protein; Transferase; Kinase; Complete proteome.
SEQUENCE 295 AA; 32813 MW; 2BCEF12496A83657 CRC64;
                                                                                                                                                                            This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its
                                                                                                                                                                                                                                                                 "Sequence analysis of the genome of the unicellular cyanobacterium Synechocystis sp. strain PCC6803. II. Sequence determination of the entire genome and assignment of potential protein-coding regions."; DNA Res. 3:109-136(1996).
                                                                                  EMBL; D90916;
                                                                                                                    or send
                                                                                                                                  entities requires a license agreement
                                                                                                                                                use by non-profit institutions as long as its content modified and this statement is not removed. Usage by a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Synechocystis sp. (strain PCC 6803).
Bacteria; Cyanobacteria; Chroococcales; Synechocystis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the EM the European Bioinformatics Institute. There are no restruce by non-profit institutions as long as its content modified and this statement is not removed. Usage by and entitles requires a license agreement (See http://www.isb-sor send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                               NCBI_TaxID=1148;
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28-FEB-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE
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TIGR; CT0960; -.
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-!- SIMILARITY:
                                                                                                                                                                                                                                                   SIMILARITY: Belongs to the fructosamine kinase family.
                                                                    S76790; S76790.
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                                                                                                                an email to license@isb-sib.ch).
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                                                                                    BAA18702.1;
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Last annotation update)
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(See http://www.isb-sib.ch/announce/
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RESULT 15
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Best Local
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                                                                                                 Pfam; PF00046; homeobox; 1.
Pfam; PF00412; LIM; 2.
ProDom; PD000010; Homeobox; 1
ProDom; PD0000094; LIM; 2.
SMART; SM00339; HOX; 1.
SMART; SM00339; LIM; 2.
PROSITE; PS00027; HOMEOBOX; 1;
Repeat;
NON TER
DOMAIN
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                                                                                                                                                                                                                                                                          the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Tsuchida T., Ensini M., Morton S.B., Baldassare M., Edessell T.M., Pfaff S.L., "Topographic organization of embryonic motor neurons expression of LIM homeobox genes.", Cell 79:957-970(1994)
                                                Homeobox;
                                                           PROSITE; PS500478;
PROSITE; PS50023;
PROSITE; PS50071;
                                                                                                                                                                                                                            EMBL; L35568; AAA62172.1; -. PIR; I50370; I50370. HSSP; P32965; ICTL.
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01-OCT-1996 (Rel. 34, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation updat
Insulin gene enhancer protein ISL-2 (Islet-
ISL2 OR ISL-2.
Callus gallus (Chicken).
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                                                                                                                                                                                          interPro;
                                                                                                                                                                                                                 nterPro; IPR001356; Homeobox.
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                                                                                                                                                                                                                                                                                                                                                                                                                    LIM-3 and ISL-1.
SUBCELLULAR LOCATION: Nuclear.
DEVELOPMENTAL STAGE: Expressed prior to
motor axon pathways and before the segre
into columns. Expressed throughout the m
                                                                                                                                                                                                                                                                                                                                                                              column.
SIMILARITY: Contains 1 homeobox domain.
SIMILARITY: Contains 2 LIM zinc-binding domains.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FUNCTION: Transcriptional factor that defines subclasses of motoneurons that segregate into columns in the spinal cord select distinct axon pathways. Acts in conjunction with LIM
                                                                                                                                                                                                                                                                                                                                            SWISS-PROT entry is copyright. It is produced through een the Swiss Institute of Bioinformatics and the EN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CHICK
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                                     LIM
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                                   DNA-binding; Developmental pro
M domain; Metal-binding; Zinc;
                                                                                                                                                                                         IPR001781; LIM.
IPR007107; LIM_homeo
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PubMed=7528105;
ni M., Morton S.B.,
                                                              HOMEOBOX 2;
                                                                          LIM_DOMAIN_
                                                                                                  HOMEOBOX_1; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Neognathae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Chordata; Craniata; Vertebrata; Euteleostomi;
Neognathae; Galliformes; Phasianidae; Phasianinae;
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LIM
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(Islet-2)
                                               protein;
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                                                                                                                                                                                                                                                                                                                                                                                                                       or to the formation of distinct
segregation of motor neurons
the median and lateral motor
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Search completed: March 11, 2004, 18:11:09 Job time : 3.78226 secs			Query Match 33.3%; Score 5; DB 1; Length 319; Best Local Similarity 100.0%; Pred. No. 27; Matches 5; Conservative 0; Mismatches 0; Indels	150 209 HOMEOBOX. 214 319 GLN-RICH. 319 AA; 35027 MW; 2C86C5738121BCDF CRC64;
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18:1			Score Pred	HOMEOBOX GLN-RICH 2C86C5
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Post-processing: Listing first 45 summaries
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/cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
/cgn2_6/ptodata/2/iaa/6A_COMB.pep:*
/cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
/cgn2_6/ptodata/2/iaa/FCTUS_COMB.pep:*
/cgn2_6/ptodata/2/iaa/backfiles1.pep:*
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             US-07-899-535A-1
US-08-460-309-17
US-08-125-077-17
US-09-562-702A-8
US-09-562-702A-8
US-09-562-702A-6
US-09-562-702A-6
US-09-562-702A-6
US-09-562-702A-6
US-08-460-309-4
US-08-125-077-4
US-08-125-077-4
US-09-030-619-19
US-09-030-619-19
US-09-621-976-6750
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US-09-621-976-6750
US-09-155-077-15
US-08-460-309-15
US-09-125-077-15
US-09-134-978B-39
US-09-134-978B-39
US-09-134-992B-14
US-09-134-992B-14
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                            Sequence 1, Appli
Sequence 17, Appli
Sequence 4, Appli
Sequence 2, Appli
Sequence 4, Appli
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Sequence 24, Appli
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US-07-899-535A-1
                    Query Match
Best Local S
Matches 15
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Patent No. 9
                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Ve
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/899,535A
FILING DATE: 16-JUN-1992
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: LOUD, GEOTGE A.
REGISTRATION NUMBER: 25,814
REFERENCE/DOCKET NUMBER: S&B-A835
TELECOMUNICATION INFORMATION:
TELEPHONE: 703-415-0960
TELEPAX: 703-415-0962
                                                                                                                                                                                                             TELEX: 24 8614
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Sheth, Anil R. APPLICANT: Garde, Seema APPLICANT: Panchal
                                                                                                         TOPOLOGY: linear MOLECULE TYPE: protein HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CORRESPONDENCE ADDRESS:
ADDRESSEE: Mr. George Loud
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Panchal, Chandra J.
TITLE OF INVENTION: Inhibiting Tumours Associated With Prostate
TITLE OF INVENTION: Adenocarcinoma, Stomach Cancer and Breast Cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQUENCES:
                                                                                                                                                            LENGTH: 94 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STREET: 2001 Jef
CITY: Arlington
STATE: Virginia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY: U
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                    15; Conservative
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linear
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                        100.0%; Score 15; DB 1;
100.0%; Pred. No. 1.4e-11;
tive 0; Mismatches 0;
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US-08-480-150A-14
US-08-489-731-14
US-08-149-223A-14
US-09-546-934-4
US-09-546-934-7
US-09-418-710-71
US-09-418-710-21
US-09-418-770-21
US-09-418-770-21
US-09-562-7702A-12
US-09-562-7702A-12
US-09-562-7702A-10
US-08-12-267A-70
US-08-12-267A-70
US-08-139-1100
US-08-347-397-1
US-08-347-397-1
US-08-347-397-1
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US-09-139-802-39
US-09-659-786-39
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                                                        Length 94
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Sequence
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Result

No.

Score

Query Match

Length

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                                                    Sequence 17, Application US/08125077
Patent No. 5872231
Patent No. 5872231 5840863
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Best Local :
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                GENERAL INFORMATION:
APPLICANT: Engval
                                                                                                                                                                                                                                                                                                                                                                                                           TELEPHONE: (619) 535-90
TELEPAX: (619) 535-8949
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US 07/919,951
FILING DATE: 27-UUL-1992
ATTORNEY_AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: 9-LA 9721
TELECOMMUNICATION INFORMATION:
   APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/125,077
FILING DATE: 22-SEP-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SOFTWARE: PatentIn Release #1.0, Version CURRENT APPLICATION DATA: APPLICATION NUMBER: US/08/460,309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Engwall, Eva
APPLICANT: Leivo, Ilmo
TITLE OF INVENTION: Nucleic Acids Encoding Merosin, Merosin
TITLE OF INVENTION: Fragments and Uses Thereof
NUMBER OF SEQUENCES: 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE: 21-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 0:
FILING DATE: 30-JAN-1990
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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amino acid
OGY: linear
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California
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5837496
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4370 La Jolla Village Drive, Suite 700
Engvall, Eva
Leivo, Ilmo
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100.0%; Prr
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Matches 6
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APPLICANT: Yurchenco, Peter
TITLE OF INVENTION: Laminin 2 and Methods for Its Use
                                                                                                                                                                                                                                                                                                                                                Sequence 8, Application US/09562702A
Patent No. 6632790
                                                     PRIOR APPLICATION NUMBER: 60/143,289
PRIOR TLING DATE: 1999-07-12
PRIOR APPLICATION NUMBER: 60/139,198
PRIOR FILING DATE: 1999-06-15
PRIOR APPLICATION NUMBER: 60/131,720
PRIOR FILING DATE: 1999-04-30
NUMBER OF SEQ ID NOS: 32
                                                                                                                                                                                                                                FILE REFERENCE: 99-274-B
CURRENT APPLICATION NUMBER: US/09/562,702A
CURRENT FILING DATE: 2000-04-28
                                                                                                                                                                                         PRIOR APPLICATION NUMBER: 60/155,945 PRIOR FILING DATE: 1999-09-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US 07/4
FILING DATE: 30-JAN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/9
FILING DATE: 27-JUL-1992
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: P.
REFERENCE/DOCKET NUMBER: P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEFAX: (619) 535-8949 INFORMATION FOR SEQ ID NO:
ENGTH: 3088
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE CHARACTERISTICS:
LENGTH: 241 amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELECOMMUNICATION INFORMATION: TELEPHONE: (619) 535-9001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION DATA:
PRIOR APPLICATION NUMBER: US 07/472,319
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APPLICATION NUMBER: US PCT/US 94/10730
FILING DATE: 21-SEP-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: Patentin Release #1.0, Version CURRENT APPLICATION DATA:
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE OF INVENTION:
TITLE OF INVENTION:
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADDRESSEE: Campbell and Flores
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San biego
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   103 NCETCT 108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6 NCETCT 11
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                                   PatentIn Ver. 2.0
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22-SEP-1993
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100.0%; Pred. No.
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US-09-562-702A-8

TYPE: PRT ORGANISM: Homo sapiens

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Patent No. 6632790
                                                         SEQ ID NO 2
                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR FILING DATE: 1999
NUMBER OF SEQ ID NOS: 3:
SOFTWARE: Patentin Ver.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION NUMBER: 60/155,945
PRIOR FILING DATE: 1999-09-24
PRIOR APPLICATION NUMBER: 60/143,289
PRIOR FILING DATE: 1999-07-12
PRIOR APPLICATION NUMBER: 60/139,198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION NUMBER: US/09/562,702A
CURRENT FILING DATE: 2000-04-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLI
                                                                                                                                           PRIOR FILING DATE: 1999-09-24
PRIOR APPLICATION NUMBER: 60/143,289
PRIOR FILING DATE: 1999-07-12
PRIOR APPLICATION NUMBER: 60/139,198
PRIOR FILING DATE: 1999-06-15
                                                                                                                                                                                                                                                                                    APPLICANT: Yurchenco, Peter
TITLE OF INVENTION: Laminin 2 and Methods for Its Use
FILE REFERENCE: 99-274-B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH: 3089
TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR FILING DATE: 1999-06-15
                                                                                          PRIOR FILING DATE: 199
                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: 60/155,945
                                                                                                                                                                                                                                                  CURRENT APPLICATION NUMBER: US/09/562,702A
CURRENT FILING DATE: 2000-04-28
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TYPE: PRT ORGANISM: Homo sapiens
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nes 6; Conservative
                                                                                                                               APPLICATION NUMBER: 60/131,720
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                                                                        PatentIn Ver. 2.0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1999-04-30
                                                                                                             1999-04-30
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100.0%; Pred. No
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Mismatches
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                                              ; TYPE: PRT; ORGANISM: Homo sapiens US-09-561-709B-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-09-562-702A-6
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Best Local Similarity
Matches 6; Conserv
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                                                                                                                   SEQ ID NO 7
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Patent No. 6682911
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION NUMBER: 60/155,945
PRIOR FILING DATE: 1999-09-24
PRIOR APPLICATION NUMBER: 60/143,289
PRIOR FILING DATE: 1999-07-12
PRIOR APPLICATION NUMBER: 60/139,198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR FILING DATE: 1999-06-15
PRIOR APPLICATION NUMBER: 60/131,720
PRIOR FILING DATE: 1999-04-30
                                                                                                                                                                                                                             FILE REFERENCE: 10287-060001
CURRENT APPLICATION NUMBER: US/09/561,709B
CURRENT FILING DATE: 2000-05-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CURRENT APPLICATION NUMBER: US/09/562,702A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Yurchenco, TITLE OF INVENTION: L
                                                                                                                                                               PRIOR APPLICATION NUMBER: US 09/168,949
PRIOR FILING DATE: 1998-10-09
PRIOR APPLICATION NUMBER: US 60/061,609
PRIOR FILING DATE: 1997-10-10
                                                                                                                                                                                                                                                                                                                                             APPLICANT: Burgeson, Robert
APPLICANT: Champliaud, Marie-France
                                                                                                                                 NUMBER OF SEQ ID NOS: 13
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                             APPLICANT: Olson, Pamela
APPLICANT: Koch, Manuel
APPLICANT: Brunken, Milliam
ATTILE OF INVENTION: LAMINING AND USES THEREOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT
ORGANISM: Homo sapiens
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                                                                                              ENGTH: 3110
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100.0%; Pred. No.
40.0%;
100.0%;
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 Score 6; DB 4; Pred. No. 31;
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                 Length 3110;
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Query Match Best Local Similarity

Matches

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Conservative

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Mismatches

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Indels

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Gaps

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Engvall, Eva

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RESULT 10
US-08-125-077-4
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Best Local Similarity
Thes 6; Conserve
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Sequence 4, Application US/08125077
Patent No. 5872231
Patent No. 5872231 5840863
GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                REFERENCE/DOCKET NUMBER: P-LA 9721
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEPHONE: (619) 535-8949
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 3111 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/125,077
FILING DATE: 22-SEP-1993
APPLICATION NUMBER: US PCT/US 94/10730
FILING DATE: 21-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/472,319
FILING DATE: 30-JAN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/919,951
APPLICATION NUMBER: US 07/919,951
APPLICATION NUMBER: US 07/919,951
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
CAMPDRESSEE: Campbell and Flores
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: PatentIn Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Engvall, Eva
APPLICANT: Leivo, Ilmo
TITLE OF INVENTION: Nucleic Acids Encoding Merosin, Merosin
TITLE OF INVENTION: Fragments and Uses Thereof
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
                                                                                                                                                                                                                                                                                                                                   TOPOLOGY:
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                                                                                                                                                        389 NCETCT 394
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GY: linear
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                                                                                                                                                                                                                          40.0%; F1
100.0%; F1
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100.0%; Pred. No. 31;
tive 0; Mismatches
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                                                                                                           SOFTWARE:
SEQ ID NO 24
                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                       Sequence 24, Application US/08481968A Patent No. 6300490
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                                                                                                                            FILE REFERENCE: PB1087US4
CURRENT APPLICATION NUMBER: US/08/481,968A
CURRENT FILING DATE: 1998-06-07
NUMBER OF SEQ ID NOS: 36
SOFTWARE: PatentIn version 3.0
                                                                                                                                                                                                                        APPLICANT: Huber, Brian
APPLICANT: Richards, Cynthia
TITLE OF INVENTION: Molecular Constructs Comprising a Carcinoembryonic Antigen
TITLE OF INVENTION: Transcriptional Regulatory Region
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APPLICATION NUMBER: US/08/125,077
FILING DATE: 22-SEP-193
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US PCT/US 94/10730
FILING DATE: 21-SEP-194
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/472,319
FILING DATE: 30-JAN-1990
DEFICE APPLICATION NUMBER: US 07/472,319
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEPHONE: (619) 535-90
TELEPAX: (619) 535-8949
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE: 27-JUL-1992
ATTORNEY AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGIGTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LA
TELECOMMUNICATION INFORMATION:
NAME/KEY: misc_feature
                                                                        LENGTH: 9
TYPE: PRT
                                             ORGANISM: Consensus sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE CHARACTERISTICS:
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APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk
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ADDRESSEE: Campbell and Flores
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       IIILE OF INVENTION: Nucleic Acids Encoding Merosin, Merosin
IIILE OF INVENTION: Fragments and Uses Thereof
NUMBER OF SEQUENCES: 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local Similarity
les 6; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: Patentin Release #1.0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 389 NCETCT 394
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100.0%; Pred. No.
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o. 31;
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FILE REPERENCE: 660081.406
CURRENT APPLICATION NUMBER: US/09/030,619B
CURRENT FILING DATE: 1998-02-25
NUMBER OF SEQ ID NOS: 232
SOPTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 199
LENGTH: 38
Type: --
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US-09-030-619-199
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OTHER INFORMATION: Consensus sequence B18 from transcriptional dictionary of Locker;

OTHER INFORMATION: and Buzard (1990).

US-08-154-712B-24
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US-08-154-712B-24
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                                                                                                                                                                                                                                                                                                                                      Patent No. 65000:
Patent No. 65000:
Patent No. 65000:
Prieger
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CURRENT APPLICATION NUMBER: US/08/154,712B
CURRENT FILING DATE: 1993-11-19
NUMBER OF SEQ ID NOS: 36
SOFTWARE: PatentIn version 3.0
SEQ ID NO 24
LENGTH: 9
Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                        Sequence 199, Application US/09030619B Patent No. 6503881
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 24, Application US/08154712B Patent No. 6337209
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Best Local .
                                                TYPE; PRT
ORGANISM: Aeschna cyanea
-09-030-619-199
                                                                                                                                                                                                    APPLICANT: West, Michael H.P.
APPLICANT: MCNICOl, Patricia J.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATING
TITLE OF INVENTION: INFECTIONS USING CATIONIC PEPTIDES ALG
TITLE OF INVENTION: WITH ANTIBIOTICS
EITE DEREBENCE. 650081 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: ATTILE OF INVENTION: MOLECULE TITLE OF INVENTION: Sequence TITLE OF INVENTION: PB1087US3
                                                                                                                                                                                                                                                                        APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Consensus sequence FEATURE:
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Taylor, Robert
Erfle, Douglas
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; SEQ ID NO 200
; LENGTH: 38
; TYPE: PRT
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US-09-030-619-200
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                                                                                                                                                                                                                                                                                                                                                                                          Sequence 5440, Application US/09621976 Patent No. 6639063
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CURRENT FILING DATE: 2000-07-21
NUMBER OF SEQ ID NOS: 19335
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APPLICANT: Giordano, J.Y.
APPLICANT: Giordano, J.Y.
APPLICANT: GENERATION: ESTS and Encoded Human Proteins.
FILE REFERENCE: GENERT.0542PR2
FILE REFERENCE: GENERT. 110/101/671 976
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TITLE OF INVENTION: COMPOSITION
TITLE OF INVENTION: INFECTIONS
TITLE OF INVENTION: WITH ANTIBL
FILE REFERENCE: 660081.406
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ORGANISM: Homo sapiens
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9 human herre
4 salmonella
0 gallus gall
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O mus musculu

7 rattus norv

1 sus scrofa

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RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA DiatChenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Richards S., Morley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Fahey J., Helton E., Ketteman M., Madan A., Golibbs R.A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smallus D.E.,
Yong S.J.M., Marra M.A.;
'T "Generation and initial analysis of more than 15,000 full-length
LL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
                                                                                                                      SEQUENCE FROM N.A., ALTERNALLY .....
TISSUE=Prostate;
MEDLINE=96032566; PubMed=7566962;
MEDLINE=96032566; PubMed=7566962;
Chin J.L., Guo Y., Chambers A.F.,
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MEDLINE=85004133; PubMed=6434350;
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"Prostate specific protein (F
                                                                                 MEDLINE=95401076;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Seidah N.G.,
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Akiyama K., Yoshi
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"New world, but not old world, monkeys
beta-microseminonrotein ":
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Eur. J. Biochem. 264:407-414(1999)
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Strausberg R.L., Feingold E.A., Gr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MEDLINE=99421644; PubMed=10491085;
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oka Y., Schmid K., Offner G.D., Troxler R.F.
., Ochiai Y., Ueyama H., Eimoto T., Sasa
asma beta-microseminoprotein: its purifi
and immunohistochemical localization.";
                                                                                 PubMed=7671139;
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VARIANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GO; GO:0005615; C:extracellular
GO; GO:0005634; C:nucleus; TAS.
InterPro; IPR008735; PSP94.
Pfam; PF05825; PSP94; 1
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-!-TISSUE SPECIFICITY: Strongly expressed in prostate, liver, kidney, breast and penis. Also expressed in pancreas, esophagus, stomach, deodenum, colon, trachea, lung, salivary glands and fallopian tube. PSP94 is expressed in lung and breast, whereas PSP57 is found in kidney and bladder.
-!- MISCELLANEOUS: SPECIFIC RECEPTORS FOR THIS PROTEIN ARE FOUND ON SPERMATOZOA AND IN THE PROSTATE.
-!- SIMILARITY: Belongs to the beta-microseminoprotein family.
                                                       VARIANT
                                                                                                                                                                                                                                                                                                                                                                                                                                 Signal; Polymorphism; SIGNAL 1 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PIR; A34567; A34567.
PIR; G01730; G01730.
Genew; HGNC:7372; MSMB
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                                                                                                              VARSPLIC
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Proteomics 2:112-120(2002).
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Papio anubis (Olive baboon).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eutele
Mammalia; Eutheria; Primates; Catarrhini; Cercopithecidae;
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28-FEB-2003 (Rel. 41, Last annotation update)
Beta-microseminoprotein precursor (Prostate secreted seminal plasma protein) (Prostate secretory protein PSP94) (PSP-94).
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                                                                                                                                                                                                                                                                                                                                                                                                   similarity).
-!- SUBCELLULAR LOCATION: Secreted. Sperm surface (By similarity).
-!- SIMILARITY: Belongs to the beta-microseminoprotein family.
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01-MAY-1992 (Rel. 22, Last sequence update)
01-MAY-1992 (Rel. 24, Last annotation update)
28-FEB-2003 (Rel. 41, Last annotation update)
Beta-microseminoprotein precursor (Prostate secreted seminal plasma protein) (Prostate secretory protein PSP94) (PSP-94).
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EMBL; X57933; CAA41003.1; JOINED.
EMBL; X57934; CAA41003.1; JOINED.
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Nolet S., St Louis D., Mbikay M., Chretien N
"Rapid evolution of prostatic protein PSP94"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "Prostatic secretory protein PSP94: gene o
sequence in rhesus monkey and human.";
Biochim. Biophys. Acta 1089:247-249(1991).
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NCBI_TaxID=9544;
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Mammalia; Eutheria; Primates; Catarrhini;
Cercopithecinae; Macaca.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             entities requires a license agreement (Some send an email to license@isb-sib.ch).
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rPro; IPR008735; PSP94.
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Mbikay M., Chretien M.;
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73.3%;
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BETA-MICROSEMINOPROTEIN.

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OR 70 (BY SIMILARITY).

OR 69 (BY SIMILARITY).

BY SIMILARITY.

BY SIMILARITY.
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Pred. No. 4.3e
3; Mismatches
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28-FEB-2003 28-FEB-2003 28-FEB-2003

(Rel. (Rel. (Rel.

41, Created)41, Last sequence update)41, Last annotation update)

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097936;
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Beta-microseminoprotein A1 prece
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                            SEQUENCE FROM N.A.
SEQUENCE FROM N.A.
MEDLINE=99421644; PubMed=10491085;
Maekinen M., Valtonen-Andre C., Lundwall A.;
Maekinen M., Valtonen-Andre C., Lundwall A.;
"New world, but not old world, monkeys carry
"New world, but not old world, monkeys carry
                                                                                          sukaryota; Metazoa;
Mammalia; Eutheria;
NCBI_TaxID=9490;
[11]
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SIGNAL
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EMBL; AJ010166; CAB38123.1; JOINE
EMBL; AJ010157; CAB38123.1; JOINE
GO; GO:0005576; C:extracellular;
InterPro; IPR008735; PSP94.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial
                                                                                                                               Saguinus oedipus (Cotton-top tamarin)
                                                                                                                                                                                                                                                                                                                                                     SEQUENCE
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Eur. J. Biochem. 264:407-414(1999)
-!- FUNCTION: Inhibits the secreti
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDLINE=99421644; PubMed=10491085; Maekinen M., Valtonen-Andre C., Lundwal "New world, but not old world, monkeys beta-microseminoprotein.";
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Platyrrhini; Callitrichidae; Saguinus.
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           . J. Biochem. 264:407-414(1999). FUNCTION: Inhibits the secretion
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SUBCELLULAR LOCATION: Secreted.
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BETA-MICROSEMINOPROTEIN J
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4; Mismatches
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Pred. No.
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Platyrrhini; Callitrio
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Callitrichidae; Saguin
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or send a
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MEDILINE=96117078; PubMed=8562060;

Tanaka T., Itahana K., Andoh N., Takeya T., Sato E.;

"Expression of prostatic secretory protein (PSP)-like
porcine corpus luteum: isolation and characterization
encoding PSP94-like protein.";
encoding PSP94-like protein.";

Mol. Reprod. Dev. 42:149-156(1995).
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similarity).
-i- SUBCELLULAR LOCATION: Secreted.
-i- TISSUE SPECIFICITY: CORPORA LUTE
SURROUNDING BLOOD VESSELS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EMBL; AJ010158; CAB38124.1; -. EMBL; AJ010159; CAB38124.1; JOINED. GO; GO:0005576; C:extracellular; TAS
                                                         -! - FUNCTION:
                                                                           Arch.
                                                                                      plasma.";
                                                                                                   Fernlund P., Granberg L.B., Roepstorff P.; "Amino acid sequence of beta-microseminoprotein
                                                                                                                                   TISSUE=Seminal plasma;
MEDLINE=94161559; .PubMed=8117114;
                                                                                                                                                                 SEQUENCE OF 21-111.
                                                                                                                                                                                                                                                                                                                                 Eukaryota; Metazoa;
Mammalia; Eutheria;
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InterPro; IPR008735; PSP94.
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7; Conser
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53.8%;
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Pred. No.
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                                                         by pituitary cells
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Matches 7
                                                                                                          TISSUE=Fibroblast;

MEDLINE=92217961; PubMed=1559694;

MEDLINE=92217961; PubMed=1559694;

Labell T.L., McGookey Milewicz D.J., Disteche C.M., Byers P.H.;

"Thrombospondin II: partial cDNA sequence, chromosome location,

"Thrombospondin II: partial cDNA sequence, chrombospondin gene family
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                                                       THROMBOSPONDIN REPEATS DISULFIDE BONDS.

MEDLINE=21588233; Pubmed=11590138;
Misenheimer T.M., Hahr A.J., Harms A.C., Annis D.S., Mosher
"Disulfide connectivity of recombinant C-terminal region of
                                                                                                                                                                                                        Labell T.L., Byers P.H.; "Sequence and characterization of the complete human thrombospondin CDNA: potential regulatory role for the 3' untranslated region.";
                                                                                                                                                                                                                                                                            Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                 01-JUN-1994 (Rel. 29, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Thrombospondin 2 precursor.
                                                                                                                                                                                                                                                                                                                            01-JUN-1994
28-FEB-2003
                                       thrombospondin 2.";
J. Biol. Chem. 276:
                                                                                                         Genomics 12:421-429(1992).
                                                                                                                                                                            SEQUENCE OF 560-1172 FROM N.A.
                                                                                                                                                                                                 Genomics
                                                                                                                                                                                                                                     MEDLINE=94010892; PubMed=8406456;
                                                                                                                                                                                                                                                                  NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                          THBS2 OR
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  laminin a
                 Biol. Chem. 276:45882-45887(2001).

FUNCTION: Adhesive glycoprotein that mediates cell-to-cell and cell-to-matrix interactions. Can bind to fibrinogen, fibronectin, cell-to-matrix interactions.
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                                                                                                                                                                                                                                                                                                                                                                                                                    49
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                                                                                                                                                                                                tential regulatory role for 17:225-229(1993).
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   and type V c : Homotrimer;
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PROSITE; PS01002; EGF 1; FALSE_NEG.
PROSITE; PS01186; EGF 2; 1.
PROSITE; PS50026; EGF 3; 2.
PROSITE; PS50092; TSPT; 3.
PROSITE; PS01208; VWFC 1; 1.
PROSITE; PS01208; VWFC 2; 1.
Glycoprotein; Cell adhesion; Calcium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pfam; PF00008; EGF; 2.
Pfam; PF00009; tsp_1; 3.
Pfam; PF02412; tsp_3; 13.
Pfam; PF05735; TSPC; 1.
Pfam; PF00573; TSPC; 1.
Pfam; PF00093; TSPC; 1.
PRINTS; PR01705; TSP1REPEAT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                        SMART; SM00181; EGF; 3.
SMART; SM00209; TSP1; 3.
SMART; SM00210; TSPN; 1.
SMART; SM00214; VWC; 1.
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EGF-like doma:
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-!- SIMILARITY: Contains 1 VWFC domain.
-!- SIMILARITY: Contains 3 EGF-like domains.
-!- SIMILARITY: Contains 3 TSP type-1 domains.
-!- SIMILARITY: Contains 7 TSP type-3 domains.
-!- SIMILARITY: Contains 1 TSP N-terminal (TSPN)
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HSSP; P00740; 1EDM.
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                                                                                                                                                                                                                                                                                                                                        domain;
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TSP TYPE-1 2.
TSP TYPE-1 3.
EGF-LIKE 1.
EGF-LIKE 3.
TSP TYPE-3 1.
TSP TYPE-3 2.
TSP TYPE-3 4.
TSP TYPE-3 5.
TSP TYPE-3 6.
TSP TYPE-3 7.
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CELL ATTACHMENT SITE (POTENTIAL)
INTERCHAIN (PROBABLE).
INTERCHAIN (PROBABLE).
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RESULT 8
TSP2 MOUSE
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Best Local &
Matches
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Q0350;
Q1.JUN-1994 (Rel. 29, Created)
Q1.JUN-1994 (Rel. 29, Last sequence update)
Q1.JUN-1994 (Rel. 29, Last annotation updat
28.FEB-2003 (Rel. 41, Last annotation updat
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
                                Bornstein P., O'Rourke K., Wikstrom K., W
Dixit V.M.;
"A second, expressed thrombospondin gene
                                                                        SEQUENCE OF 1-873 FROM N.A.
MEDLINE=91302287; PubMed=1712771;
Bornstein P., O'Rourke K., Wikstrom
                                                                                                                                                                                                  MEDLINCE FROM N.A.
MEDLINE=92147683; PubMed=1371115;
Laherty C.D., O'Rourke K., Wolf F.W.,
Dixit V.M.;
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                                                                                                                                             "Characterization of during cell growth ar J. Biol. Chem. 267:3
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                                                                                                                                             ion of mouse thrombospondin owth and development."; 267:3274-3281(1992).
     266:12821-12824(1991)
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Pred. No. 3.6;
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                                                                            Wolf F.W., Katz R.,
                                        (Thbs2) exists in the mouse
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         MGD; MGI:98738; YnDSG.
InterPro; IPR00.1801; EGF like.
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InterPro; IPR00.6210; IEGF.
InterPro; IPR00.6210; IEGF.
InterPro; IPR00.6210; IEGF.
InterPro; IPR00.885; TSP_3.
InterPro; IPR00.885; TSP_3.
InterPro; IPR00.885; TSPC.
InterPro; IPR00.885; TSPC.
InterPro; IPR00.120; TSPN.
InterPro; IPR00.1007; VWF_C.
Pfam; PF00.0008; EGF; 2.
Pfam; PF00.900; ESP_1; 3.
Pfam; PF00.900; ESP_3; 13.
Pfam; PF00.900; TSPC, 1.
Pfam; PF00.210; TSPN, 1.
Pfam; PF00.210; TSPN, 1.
Pfam; PF00.003; VWC; 1.
Pfam; PF00.003; VWC; 1.
                                                                                                                                                                                                                                                                                                                                                                                                     PRINTS; PRO1705; TSP1REPEAT.
SMART; SM00209; TSP1; 3.
SMART; SM00209; TSP1; 3.
SMART; SM00210; TSPN; 1.
SMART; SM00210; TSPN; 1.
FROSITE; PS000022; EGF 1; PALSE
PROSITE; PS001086; EGF 2; 1.
PROSITE; PS50026; EGF 3; 2.
PROSITE; PS50026; TSP1; 3.
PROSITE; PS50026; VWFC 1; 1.
FROSITE; PS50184; VWFC 2; 1.
Glycoprotein; Cell adhesion; Cell
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EMBL; M64866; AAA404;
PIR; A42587; A42587.
HSSP; P00740; 1EDM.
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SUBUNIT: Homotrimer; disulfide linked.

SIMILARITY: Belongs to the thrombospondin familer.

SIMILARITY: Contains 1 VWFC domain.

SIMILARITY: Contains 3 EGF-like domains.

SIMILARITY: Contains 3 TSP type-1 domains.

SIMILARITY: Contains 7 TSP type-3 domains.

SIMILARITY: Contains 1 TSP N-terminal (TSPN) domains.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FUNCTION: Adhesive glycoprotein that mediates cell-to-cell cell-to-matrix interactions. Can bind to fibringen, fibro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SWISS-PROT entry is copyright. It is produced through a collaboration een the Swiss Institute of Bioinformatics and the EMBL outstation European Bioinformatics Institute. There are no restrictions on its by non-profit institutions as long as its content is in no wish
                                                                                                                                                                                                                                                                                                                                                                                         domain;
           AAA53064.1; -.
AAA40432.1; -.
                                                                                                                                                                                                                                                                                                                                                                                    Signar
         FALSE_NEG
       VWEC.
TSP TYPE-1 1.
TSP TYPE-1 3.
TSP TYPE-1 3.
TSP TYPE-1 3.
TSP TYPE-3 1.
TSP TYPE-3 1.
TSP TYPE-3 2.
TSP TYPE-3 3.
TSP TYPE-3 3.
TSP TYPE-3 5.
TSP TYPE-3 5.
TSP TYPE-3 7.
C-TERMINAL.
CELL ATTACHMENT SITE (INTERCHAIN (PROBABLE).
                                                                                                                                                                                                                                                                                                                                                                                                          Calcium-binding; Heparin-binding;
                                                                                                                                                                                                                                                                                                                     HEPARIN-BINDING
                                                                                                                                                                                                                                                                                                                                    THROMBOSPONDIN
TSP N-TERMINAL.
                                                                                                                                                                                                              CALCIUM-BINDING
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                                                                                                                                                                                                                                                                                                                      (POTENTIAL) .
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                                (POTENTIAL)
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                                                                                                                                                                                                                                                                                                                                                                                                              Repeat;
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TSP1_XENLA STANDARD; PRT; 1173 AA.

ID TSP1_XENLA STANDARD; PRT; 1173 AA.

AC p35448;

DT 01-UUN-1994 (Rel. 29, Created)

DT 01-UUN-1994 (Rel. 29, Last sequence update)

DT 01-UUN-1994 (Rel. 29, Last sequence update)

DT 28-FSB-2003 (Rel. 41, Last annotation update)

DT 28-FSB-2003 (Rel. 41, Last annotation update)

THSS1 OR TSP1.

OS Xenopus laevis (African clawed frog).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;

OC Xenopudinae; Xenopus.

OC Xenopodinae; Xenopus.

OC NCBI_TaxID=8355;

RN [1]

RP SEQUENCE FROM N.A.

BUTY L.A., Ramos J., Duquette M., Desimone D.W., Lawler J.;

RP SEQUENCE FROM S.A.

CC -: FUNCTION: Adhesive glycoprotein that mediates cell-to-cell and cell-to-matrix interactions. Can bind to fibrinogen, fibronectin, type V collagen and integrins alpha-Vbeta-1 alpha-CC -: SIMILARITY: Contains 1 WperG domain.

CC -: SIMILARITY: Contains 3 EGF-like domains.

CC -: SIMILARITY: Contains 3 TSP type-1 domains.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local &
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DISULFID
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BY SIMILARITY.
BY SIMILARITY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 52; DB Pred. No. 3.6; 1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB
3.6;
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(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
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(POTENTIAL).
                                                                                                                               fibronectin,
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              PRINTS; PRO1705; TSPIREPEAT.
SWART; SMOOLOB; EGF; 2.
SWART; SMOOLOB; TSPI; 3.
SWART; SMOOLOB; TSPN; 1.
SWART; SMOOLOB; TSPN; 1.
SWART; SMOOLOB; TSPN; 1.
PROSITE; PRO1022; EGF_1; FALSE
PROSITE; PRO1026; EGF_2; 1.
PROSITE; PRO5026; EGF_3; 2.
PROSITE; PRO50126; WFC_1; 1.
PROSITE; PS50126; WFC_1; 1.
PROSITE; PS50126; WFC_2; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pfam; PF00008;
Pfam; PF00090;
Pfam; PF02412;
Pfam; PF05735;
Pfam; PF02210;
Pfam; PF00093;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Glycoprotein;
EGF-like domai
SIGNAL
CHAIN 2
            DOMAIN
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DISULFID
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HSSP; P00740;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        modified and this statement is not removed.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SIMILARITY: Contains SIMILARITY: Contains
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; PF00008; EGF; 2.
; PF00090; tsp_1; 3.
; PF02412; tsp_3; 13.
; PF05735; TSPC; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ke domain;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | IPRO01881; EGF_Ca.
| IPRO06209; EGF like.
| IPRO06210; IEGF.
| IPRO06210; TSF1.
| IPRO0884; TSF1.
| IPRO08865; TSF_1.
| IPRO08367; tsp_3.
| IPRO08367; tsp_3.
| IPRO03129; TSPN.
| IPRO03129; TSPN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       requires a license agreement (See http://www.isb-sib.ch/announce/an email to license@isb-sib.ch).
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1 TSP N-terminal (TSPN)
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            CELL ATTACHMENT
BY SIMILARITY
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TSP TYPE-1 2
TSP TYPE-1 3
EGF-LIKE 1.
EGF-LIKE 3.
TSP TYPE-3 1
TSP TYPE-3 2
TSP TYPE-3 3
TSP TYPE-3 3
TSP TYPE-3 3
TSP TYPE-3 5
TSP TYPE-3 5
TSP TYPE-3 6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     POTENTIAL.
THROMBOSPONDIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   HEPARIN-BINDING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    N-TERMINAL.
                                                                                                                                                                                                                        ATTACHMENT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Heparin-binding; Repeat;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    domain.
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tions on its
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RESULT 10
MSPE SAGGE
ID MSPE S
AC 097935
DT 28-FEB
CC Mammal
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Matches
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097935;
28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last seque
28-FEB-2003 (Rel. 41, Last annot
Beta-microseminoprotein El precu
  Signal.
SIGNAL
CHAIN
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                                                                                                   EMBL; AJ010154; CAB38105.1; -. GO; GO:0005576; C:extracellular; InterPro; IPR008735; PSP94.
                                                                                                                                                                                                         use by non-profit institutions as long modified and this statement is not removed. entitles requires a license agreement (See or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                            This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the El the European Bioinformatics Institute. There are no resti
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.

MEDLINE=99421644; PubMed=10491085;
Maekinen M., Valtonen-Andre C., Lundwal
Maekinen M., Valtonen-Andre Ci, Lundwal
"New world, but not old world, monkeys
beta-microseminoprotein.";
Eur. J. Biochem. 264:407-414(1999).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DISULFID
DISULFID
                                                                               InterPro; IPRO
Pfam; PF05825;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NCBI_TaxID=9490
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Saguinus oedipus (Cotton-top tamarin).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CARBOHYD
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                                                                                                                                                                                                                                                                                                                                                                                                 FUNCTION: Inhibits the secretion of FSH by pituitary cells (by similarity).

SIMECELLULAR LOCATION: Secreted. Sperm surface (By similarity).

SIMILARITY: Belongs to the beta-microseminoprotein family.
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     21
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20
114
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BY SIM
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Pred. No. 3.6;
1; Mismatches
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  POTENTIAL.
BETA-MICROSEMINOPROTEIN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Lundwall A.;
                                                                                                                                 TAS
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                                                                                                                                                                                                                                                                              There are no restrictions in as its content is in
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                                                                                                                                                                                                                                    http://www.isb-sib.
                                                                                                                                                                                                                                                          Usage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         several genes encoding
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ASRA_SALTY
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EMBL; U43400; T41967.

PIR; T41967; T41967.

InterPro; IPR004286; UL16_UL94.

75nm: PF03044; UL16_UL94; 1.

75n AA; 37497 MW; F
                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
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Best Local :
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Best Local
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                                                                                 01-AUG-1992 (Rel. 23, 01-AUG-1992 (Rel. 23, 15-MAR-2004 (Rel. 43, 1) Anaerobic sulfite reduction-sulfur subunit).

ASRA OR STM2548.
                                                                                                                                                                                                                ASRA SALTY
P26474;
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01-OCT-1996
16-OCT-2001
Salmonella typhimurium.
Bacteria; Proteobacteria; Gamma
Enterobacteriaceae; Salmonella.
NCBI_TaxID=602;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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SEQUENCE
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Submitted (JAN-1996) to the EMBL/GenBank/DDBJ databases.
-!- SIMILARITY: BELONGS TO FAMILY THAT GROUPS TOGETHER HSV-1 UL16,
-!- SIMILARITY: BELONGS TO FAMILY THAT GROUPS TOGETHER HSV-1 UL16,
-!- SIMILARITY: BEV-1 46, HCMV UL94, EBV BGLE2, HSV 33, AND VZV 44.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             UL16_HSV7J
P52359;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human herpesvirus (type 7 / strai
Viruses; dsDNA viruses, no RNA st
Alphaherpesvirinae; Simplexvirus.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NCBI_TaxID=57278;
                                                                                                                                                                                                                                                                                                                                             233 TONQETCECY
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114 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         no RNA stage; Herpesviridae;
                                        Gammaproteobacteria;
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OR 70 (BY SIMILARITY).
OR 69 (BY SIMILARITY).
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Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FF32C19CEBF05901 CRC64;
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(Anaerobic
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                                           Enterobacteriales;
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                                                                                                                              sulfite reductase
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RESULT 13
TSP2_CHICK
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Best Local S
Matches
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METAL 230 23
METAL 233 23
METAL 236 22
METAL 240 24
METAL 312 31
METAL 315 31
METAL 318 31
METAL 318 32
01-JUN-1994
01-JUN-1994
28-FEB-2003
                                                                                                                                                                                                                                METAL
                                                                                                                                                                                                                                                                                                                                                                       Pfam; PF(
PROSITE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               This SWISG-PROT entry is copyright. It is produced through a coptween the Swiss Institute of Bioinformatics and the EMBL the European Bioinformatics Institute. There are no restrict use by non-profit institutions as long as its content is modified and this statement is not removed. Usage by and fo entitles requires a license agreement (See http://www.isb-sib.or send an email to license@isb-sib.ch).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       McClelland M., Sanderson K.E., Spieth J., Clifton S
Courtney L., Porwollik S., Ali J., Dante M., Du F.,
Leonard S., Nguyen C., Scott K., Holmes A., Grewal
Leonard S., Sun H., Florea L., Miller W., Stoneking T.
Waterston R., Wilson R.K.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Huang C.J., Barrett E.L., "Sequence analysis and expression of thoperon encoding production of hydrogen J. Bacteriol. 173:1544-1553(1991).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  [1]
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                        EMBL; M57706; AAA99275.1; -. EMBL; AE008816; AAL21442.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             -!- FUNCTION: ELECTRON TRANSFER PROTEIN FOR F
REDUCTASE SUBUNIT A.
-!- COFACTOR: Binds 2 4Fe-4S clusters.
-!- PATHWAY: Sulfite reduction.
-!- SUBUNIT: The anaerobic sulfite reductase
                                                                                                                                                                                                                                                                                                                                                                                                              PIR; A38453; A38453.
StyGene; SG10021; asrA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Nature 413:852-856(2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STRAIN=LT2 / SGSC1412 / ATCC 700720;
MEDLINE=21534948; PubMed=11677609;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STRAIN=EB303;
MEDLINE=91139599; PubMed=1704886;
                                        P35440;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "Complete genome sequence of Salmonella enterica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                               nterPro; IPR001450; 4Fe4S_ferredoxin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         INDUCTION: By sulfite. Repressed by oxy; SIMILARITY: The iron-sulfur centers are bacterial-type 4Fe-4S ferredoxins.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   subunits.
SUBCELLULAR LOCATION: Cytoplasmic
                                                       CHICK
                                                                                                                        237 TIGOPTOTOY
                                                                                                                                                                                                                                                                                                                                                                                    PF00037;
                                                                                                                                                  4
                                                                                                                                                                             Similarity 7; Conserv
                                                                                                                                                                                                                                                                                                                                                                     PS00198; 4FE4S_FERREDOXIN; 2.
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(Rel.
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                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                   AA;
                                                       STANDARD;
                                                                                                                                                                                                                                             t; Iron-sulfur; 4Fe-4S; C
230 IRON-SULFUR; 1
230 IRON-SULFUR; 1
236 IRON-SULFUR; 1
236 IRON-SULFUR; 1
240 IRON-SULFUR; 1
240 IRON-SULFUR; 2
312 IRON-SULFUR; 3
312 IRON-SULFUR; 2
318 IRON-SULFUR; 2
318 IRON-SULFUR; 2
318 IRON-SULFUR; 2
29,
41,
                                                                                                                        246
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                                                                                                                                                                                                                                   39679 MW;
                                                                                                                                                                                         48.5%;
Last sequence update)
Last annotation update)
                           Created)
                                                                                                                                                                                                                                             Ifur; 4Fe-4S; Complete p
IRON-SULFUR 1 (4FE-4S)
IRON-SULFUR 1 (4FE-4S)
IRON-SULFUR 1 (4FE-4S)
IRON-SULFUR 1 (4FE-4S)
IRON-SULFUR 2 (4FE-4S)
                                                                                                                                                                             Score 47; DB
Pred. No. 5.8;
0; Mismatches
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                                                       1178 AA
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M., Du F., Hou S., La
A., Grewal N., Mulvane
toneking T., Nhan M.,
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1 (4FE-4S) (BY SIMI
1 (4FE-4S) (BY SIMI
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                                                                                                                                                                                                       Length 347;
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Pfam; PF00093; vwc; 1.
PRINTS; PR01705; TSP1REPEAT.
SMART; SW00181; EGF; 2.
SMART; SM00209; TSP1; 3.
SMART; SM00210; TSP1; 1.
SMART; SM00210; TSP1; 1.
SMART; SM00210; TSP1; 1.
                                                                                                                                  SMART; SM00214; VWC; 1.

PROSITE; PS00022; EGF 2; 1.

PROSITE; PS01165; EGF 3; 2.

PROSITE; PS50026; EGF 3; 2.

PROSITE; PS50092; TSP1; 3.

PROSITE; PS01208; VWFC 1; 1.

PROSITE; PS01208; VWFC 2; 1.

Clycoprotein; Cell adhesion; C
                                                                                                                                                                                                                                                                                                                                                         InterPro; IPR001881; EGF Ca.
InterPro; IPR006209; EGF like.
InterPro; IPR006210; ISGF.
InterPro; IPR00684; TSP1.
InterPro; IPR00885; TSP_1.
InterPro; IPR003367; tsp_3.
InterPro; IPR003367; TSPC.
InterPro; IPR003129; TSPN.
InterPro; IPR003129; TSPN.
InterPro; IPR003129; TSPN.
InterPro; IPR003129; TSPN.
InterPro; IPR0010107; VWF C.
                                                                                                                                                                                                                                                                                                 Pfam; PF00008;
Pfam; PF00090;
Pfam; PF02412;
Pfam; PF05735;
Pfam; PF02210;
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CHAIN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=91217026; PubMed=2022631;
Lawler J., Duquette M., Ferro P.;
"Cloning and sequencing of chicken thrombospondin.";
"J. Biol. Chem. 266:8039-8043(1991).
-!- FUNCTION: Adhesive glycoprotein that mediates cell-to-cell and cell-to-matrix interactions. Can bind to fibrinogen, fibronect.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Eukaryota; Metazoa; Chordata; (Archosauria; Aves; Neognathae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Thrombospondin
THBS2 OR TSP2.
                                                                                                                         Glycoprotein;
EGF-like doma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PIR; A39804; A39804.
HSSP; P00740; 1EDM.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gallus gallus (Chicken)
                                                                                       DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NCBI_TaxID=9031;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     M60853; AAA51437.1;
                                                                                                                                                                                                                                                                                             ..., tsp_1; 3.
412; tsp_3; 13.
35; TSPC; 1.
0; TSPN
                                                                                                                                                                                                                                                                                      TSPN;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          N
                                                                                                              Signal.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Chordata; Craniata; Vertebrata; Euteleostomi;
Neognathae; Galliformes; Phasianidae; Phasianinae;
                                                                                                                                                                                                               FALSE_NEG
POTENTIAL.
THROMBOS PONDIN 2
TSP N-TERMINAL.
HEPARIN-BINDING
VWFC.
TSP TYPE-1 1.
TSP TYPE-1 2.
TSP TYPE-1 3.
EGF-LIKE 1.
EGF-LIKE 2, CALC:
                                                                                                                                      Calcium-binding; Heparin-binding;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         noved. Usage by and for commercial
(See http://www.isb-sib.ch/announce/
  CALCIUM-BINDING (POTENTIAL)
                                                                                                   Ņ
                                                                           (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            family
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                domain.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  fibronectin,
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                                                                                                                                      Repeat;
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no
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RESULT 14
TSP1 BOVIN
ID TSP1 BOVIN
STANDARD; PRT; 1170
AC Q28178; Q28179;
DT 01-NOV-1997 (Rel. 35, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence updated)
DT 15-MAR-2004 (Rel. 43, Last annotation upposed to the sequence of the sequence o
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Matches 6
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BY SIMILARITY,
BY 
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Pred. No.
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                                                                                                                             Craniata; Vertebrața; Euteleostomi;
actyla; Ruminantia; Pecora; Bovoidea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 1178;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (POTENTIAL)
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            PROSITE, PS00022; EGF 1; FALSE PROSITE; PS01186; EGF 2; 1. PS05026; EGF 3; 2. PROSITE; PS50026; TSP1; 3. PROSITE; PS500208; VWFC 1; 1. PROSITE; PS50184; VWFC 2; 1. Glycoprotein; Cell adhesion; Cell adh
                              Glycoprotein; Glycoprotein; Glycoprotein; GGF-like domain SIGNAL 19 CHAIN 19 DOMAIN 24 DOMAIN 316 DOMAIN 316
                                                                                                                                                                                                                                                                                                                                                                                                                        PRINTS;
SMART; S
SMART; S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pfam;
Pfam;
Pfam;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   between the Swiss Institute of Bioinformat the European Bioinformatics Institute. The use by non-profit institutions as long modified and this statement is not removed.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -!- SUBUNIT: Homotrimer; disulfide-linked.
-!- TISSUE SPECIFICITY: Odontoblasts
-!- SIMILARITY: Belongs to the thrombospondin fam
-!- SIMILARITY: Contains 1 VWFC domain.
-!- SIMILARITY: Contains 3 EGF-like domains.
-!- SIMILARITY: Contains 3 TSP type-1 domains.
-!- SIMILARITY: Contains 7 TSP type-3 domains.
-!- SIMILARITY: Contains 1 TSP N-terminal (TSPN)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Inoue H.;
"CDNA cloning of bovine thrombospondin 1
odontoblasts and predentin.";
Biochim. Biophys. Acta 1382:17-22(1998).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pfam;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EMBL; X87618; CAA60950.1;
EMBL; X87619; CAA60951.1;
PIR; S55501; S55501.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     entities requires a license agreement (S or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE OF 1-18 AND 710-1170 FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               InterPro;
InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GlycoSuiteDB; Q28178; InterPro; IPR001881; I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TISSUE=Aortic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDLINE=98173773; PubMed=9507054; Ueno A., Yamashita K., Nagata T.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          InterPro; IPR003129;
InterPro; IPR001007;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                InterPro; IPR001881;
InterPro; IPR006209;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    [nterPro;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PHO0008;
PH00090;
PH002412;
PH005735;
PH002210;
                                                                                                                                                                                                                                                                                                                                                                        S; PR01705; TSP1RE; SM00181; EGF; 3.; SM00209; TSP1; 3; SM00210; TSPN; 1; SM00214; VWC; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AB005287; BAA21115.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; IPR006210;
; IPR000884;
; IPR008085;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; IPR003367; ; IPR008859;
                                                                                                                                                                                domain;
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tsp_1; 3.

tsp_3; 13.

tspC; 1.

TSPN; 1.

TSPN; 1.
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TSP1.
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                                                                                                                                                                                                                                                                                                                                                 FALSE_NEG.
          THROMBOSPONDIN 1
HEPARIN-BINDING
TSP N-TERMINAL.
VWFC.
TSP TYPE-1 1.
TSP TYPE-1 2.
                                                                                                                                                                                                    Calcium-binding; Heparin-binding;
                                                                                                                                                           SIMILARITY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Tsurumi C., Miwa Y., Kitamura
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (See http://www.isb-sib.ch/announce,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  There are no restri
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                                                                                                             (POTENTIAL)
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                                                                                                                                                                                                            Repeat;
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Query Match
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                                                                                                                          (CISP)
THBS2
                                                                                                                                                                       TSP2_BOVIN STANDARD; PRT; 1170 AA. 095116; Q28180; 01-NOV-1997 (Rel. 35, Created) 15-JUL-1999 (Rel. 38, Last sequence update) 28-FEB-2003 (Rel. 41, Last annotation update) 27-rombospondin 2 precursor (Corticotropin-induced Circumstantian (Circumstantian (C
                                    Bos taurus (Bovine).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovoidea;
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DOMAIN
DOMAIN
                   Bovidae; Bovinae; Bos
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                                                                                                                             OR TSP2 OR TSP-2.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity 6; Conserv
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1085
805
1170
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      12
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C-TERMINAL.
CELL ATTACHMENT SITE (POINTERCHAIN (PROBABLE).

BY SIMILARITY.

BY 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 46; DB : Pred. No. 27; 1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ΜW.;
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EGF-LIKE 2. C2
EGF-LIKE 3.
TSP TYPE-3 1.
TSP TYPE-3 3.
TSP TYPE-3 4.
TSP TYPE-3 4.
TSP TYPE-3 6.
TSP TYPE-3 6.
TSP TYPE-3 7.
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ODD6ADF3E5FA031A
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RCHAIN (PROBABLE).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 1170;
                                                                                                                                                                             secreted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CRC64;
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(POTENTIAL)
(POTENTIAL)
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                                                                                                                                                                          protein)
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                 InterPro; IPRO01007; VWF_C.

Pfam; PF000008; EGF; 1.

Pfam; PF00000; tsp_1; 3.

Pfam; PF00412; tsp_3; 13.

Pfam; PF00412; TspQ; 1.

Pfam; PF00210; TSPQ; 1.

Pfam; PF00003; VWC; 1.

Pfam; PF00003; VWC; 1.

Pfam; PF00003; VWC; 1.

PARAT; SM00181; EGF; 3.

SMART; SM00181; EGF; 3.

SMART; SM00210; TSPN; 1.

SMART; SM00210; TSPN; 1.

SMART; SM00210; TSPN; 1.

PROSITE; PS00022; EGF 1; FALS

PROSITE; PS00026; EGF 3; 2.

PROSITE; PS01186; EGF 3; 2.

PROSITE; PS01208; VWFC 1; 1.

PROSITE; PS01208; VWFC 1; 1.

PROSITE; PS01208; VWFC 1; 1.

PROSITE; PS01208; VWFC 1; 1.
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Danik M., Chen H., N
Penhoat A., Chen H., N
Submitted (MAR-1998)
                                  Glycoprotein;
EGF-like doma:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          InterPro;
InterPro;
InterPro;
InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EMBL; X96540; CAA65385.1; -.
EMBL; X87620; CAA60952.1; -.
HSSP; P00740; 1EDM.
InterPro; IPR001881; EGF_Ca.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                This SWISS-PROT entry is copyright. It is produced through a collab between the Swiss Institute of Bioinformatics and the EMBL outst the European Bioinformatics Institute. There are no restrictions use by non-profit institutions as long as its content is in modified and this statement is not removed. Usage by and for comentities requires a license agreement (See http://www.isb-sib.ch/an or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TISSUE=Aortic endothelium;
Zafar R.S., Moll Y.D., Womack J.F., Walz D.A.;
Cloning and sequencing of bovine thrombospondin stimulatory
TGF-Deta.";
Submitted (MAY-1995) to the EMBL/GenBank/DDBJ databases.
-!- FUNCTION: Adhesive glycoprotein that mediates cell-to-cel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    InterPro;
InterPro;
InterPro;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE OF 1-522 FROM N.A.
MEDLINE=96331130; PubMed=8698834;
Lafeuillade B., Pellerin S., Keramidas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NCBI_TaxID=9913;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cell-to-matrix interactions. Can bind to fibrinogen, laminin and type V collagen.

SUBLINIT: Homotrimer; disulfide-linked.

SIMILARITY: Belongs to the thrombospondin family.

SIMILARITY: Contains 1 VWFC domain.

SIMILARITY: Contains 3 EGF-like domains.

SIMILARITY: Contains 3 TSP type-1 domains.

SIMILARITY: Contains 7 TSP type-3 domains.

SIMILARITY: Contains 7 TSP type-3 domains.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             -beta.";
mitted (MAY-1995) to the EMBL/GenBank/DDBJ databases.
FUNCTION: Adhesive glycoprotein that mediates cell-to-cell
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | IPRO01881; EGF Ca. | IPRO06209; EGF like. | IPRO06210; IEGF | IRR | IPRO06210; IEGF | IRR | IPRO08085; TSP 1. | IPRO08085; TSP 3. | IPRO080859; TSP 3. | IPRO08129; TSPN | IPRO03129; TSPN | IPRO03129; TSPN | IPRO03129; TSPN | IPRO01007; TSPN | I
184,
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                                                              adhesion;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 of thrombospondin-1
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                 POTENTIAL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             noved. Usage by and for commercial
  (See http://www.isb-sib.ch/announce/
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Feige J.J.;
databases.
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HERDARIN-BINDING (POTENTIAL).

VWFC.

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TSP TYPE-1 2.

TSP TYPE-1 3.

EGF-LIKE 2.

TSP TYPE-3 1.

EGF-LIKE 3.

TSP TYPE-3 1.

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Copyright (c) 1993 - 2004 Compugen Ltd
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8 xenopus lae
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PubMed=7506990; R.C., Vessella R.L.; sion of prostatic secretory ; ; 1-99(1993).	SEQUENCE FROM N.A.  SEQUENCE FROM N.A.  MEDLINE=90073664; PubMed=2590204; Ulvsbaeck M., Lindstroem C., Weiber H., Ab Lundwall A.;  "Molecular cloning of a small prostate pro microsemenoprotein, PSP94 or beta-inhibin, transcripts in non-genital tissues ", Eiochem. Biophys. Res. Commun. 164:1310-13	SEQUENCE FROM N.A.  SEQUENCE FROM N.A.  MEDLINE=90211299; PubMed=2322265; Green C.B., Liu W.Y., Kwok S.C.M.; "Cloning and nucleotide sequence analysi microseminoprotein gene."; Biochem. Biophys. Res. Commun. 167:1184-	SEQUENCE FROM N.A.  SEQUENCE 91274357; PubMed=2054385; MEDLINE=91274357; PubMed=2054385; Nolet S., Mcikay M., Chretien M.; Nolet S., Mcikay M., Chretien M.; Proostatic secretory protein PSP94: gene of sequence in rhesus monkey and human,"; Biochim. Biophys. Acta 1089:247-249(1991).	MEDLINE FROM N.A. MEDLINE=87161231; PubMed=3829888; Mbikay M., Nolet S., Fournier S., Benja Paradis G., Dube J.Y., Tremblay R., La: Chretien M.; "Molecular cloning and sequence of the seminal plasma protein secreted by the DNA 6:23-29(1987).	Homo sapiens (Human).  Bukaryota; Metazoa; Chordata; Craniata; Ve Mammalia; Butheria; Primates; Catarrhini; NCBI_TaxID=9606;  [1]	MSMB_HUMAN STANDARD; PRT; 114 AA. p08118; p1199; Q13125; Q9UC59; 01-AUG-1988 (Rel. 08, Created) 01-AUG-1988 (Rel. 08, Last sequence update) 10-CCT-2003 (Rel. 42, Last annotation update) Beta-microseminoprotein precursor (Prostate protein) (Prostate secretory protein PSP94) beta-inthibin) (Immunoglobulin binding factor MSMB OR PRSP.	ALIGNMENTS SULT 1 MB HUMAN STANDARD; PRT; 114	34 62.5 17.0 1170 1 TSP1_HUMAN 35 62.5 17.0 1170 1 TSP1_MOUSE 36 62.5 17.0 5376 1 ZAN_MOUSE 37 62 16.8 119 1 ANTĀ_HAEGH 38 62 16.8 552 1 DNLI_VARV 40 62 16.8 552 1 DNLI_VARV 40 62 16.8 1019 1 ENTX_HUMAN 41 62 16.8 1019 1 ENTĀ_HAEGF 42 61 16.6 1038 1 SOG_BROME 43 61 16.6 552 1 DNLI_VACCC 44 61 16.6 552 1 DNLI_VACCC 44 61 16.6 552 1 DNLI_VACCC 45 61 16.6 1121 1 WDR6_HUMAN
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A Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
A Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
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A Hopkins R.J., Warusina K., Farmer A.A., Rubin G.M., Hong L.,
A Hopkins R.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
A Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
A Raha S.A., McBwan P.J., McKernan K.J., Malek J.A., Gunaratine P.H.,
A Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
Villalon D.K., Wuzny D.M., Sodergren B.J., Lu X., Gibbs R.A.,
Villalon D.K., Wuzny D.M., Sodergren B.J., Lu X., Gibbs R.A.,
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A Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
A Hakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
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secretory protein of human seminal plas
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Tsuda R., Hara M.;
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Akiyama K., Yoshioka
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oka Y., Schmid K.,
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chiai Y., Ueyama H., Eimoto T., Sasaki M.;
beta-microseminoprotein: its purification,
immunohistochemical localization.";
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Proteomics 2:112-120(2002).
-!- FUNCTION: Inhibits the secretion
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MEDLINE=21648993; PubMed=11788
Ghafouri B., Stahlbom B., Tage
"Newly identified proteins in
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TISSUE SPECIFICITY: Strongly expressed in prostate, liver, kidney, breast and penis. Also expressed in pancreas, esophagus, stomach, deodenum, colon, trachea, lung, salivary glands and fallopian tube. PSP94 is expressed in lung and breast, whereas PSP57 is found in kidney and bladder.

MISCELLAMBOUS: SPECIFIC RECEPTORS FOR THIS PROTEIN ARE FOUND ON SPERMATOZOA AND IN THE PROSTATE.

SYNILARITY: Belongs to the beta-microseminoprotein family.
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ALTERNATIVE PRODUCTS:
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L -> S (in dbSNP:1804776).
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I -> M (in dbSNP:1804778).
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secretory protein of 94 amino a
DNA CUCI Biol. 16:627-638(1997)
-i- FUNCTION: Inhibits the secr
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Chin J.L.;
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Mammalia; Eutheria; Primates;
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Xuan J.W., Wu D.,
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01-NOV-1997 (Rel. 35, Last seguence update)
28-FEB-2003 (Rel. 41, Last annotation update)
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                    KWQTDNCEACTCYETEIICCTLIATPVGYDKNKCQRIFKKEECKYIVVEKKNPKKTCPID 110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              seminoprotein precursor (Prostate secreted seminal Prostate secretory protein PSP94) (PSP-94).
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Guo Y., Garde S.,
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78.1%;
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BETA-MICROSEMINOPROTEIN.
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OR 69 (BY SIMILARITY)
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no acids) in
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                                                            Score 314; DB 1;
Pred. No. 1.6e-27;
9; Mismatches 5;
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Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Craniata; Vertebrata; Eutele Catarrhini; Cercopithecidae;
                                                                                                      A08C837ED81F98ED CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
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No. 2.2e-33;
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KWKTDNCERCTCYKTEIICCTLIATPVGYDKKKCQRIFKKEDCKYIVVEKKNPKKTCPID

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Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                         This SWISS-PROT entry is copyright. It is produce between the Swiss Institute of Bioinformatics the European Bioinformatics Institute. There a use by non-profit institutions as long as i modified and this statement is not removed. Us
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01-MAY-1992 (Rel. 22, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Beta-microseminoprotein precursor (Prostate s
                                                                                                                                                                                                                                                                                               EMBL; X57932; CAA41003.1; --
EMBL; X57933; CAA41003.1; JOINED.
EMBL; X57934; CAA41003.1; JOINED.
EMBL; X57935; CAA41003.1; JOINED.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Nolet S., Mbikay M., Chretien M.; "Prostatic secretory protein Ps994: gene organization and sequence in rhesus monkey and human."; Biochim. Biophys. Acta 1089:247-249(1991).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Metazoa; Chor
Mammalia; Eutheria; Prin
Cercopithecinae; Macaca.
                                                                                                                                                                                                                                                                    EMBL; M92161; AAA36903.1;
PIR; S16237; A54663.
                                                                                                                                                                                                                                                                                                                                                                            entities requires a license agreement (S or send an email to license@isb-sib.ch).
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01-MAY-1992
                                                                                                 SEQUENCE
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                                                                                                                                                                                                                                                       nterPro;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SUBCELLULAR LOCATION: Secreted. Sperm surface (By similarity)
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                                     . Similarity 49; Conserv
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nilarity 76.6%;
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Primates;
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BETA-MICROSEMINOPROTEIN.

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OR 70 (BY SIMILARITY).

OR 69 (BY SIMILARITY).

BY SIMILARITY.
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Catarrhini;
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i; Cercopithecidae;
                                     DB 1; 1).2e-27; les 6;
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097949;
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28-FEB-2003 (Rel. 41, Last annotation update)
Esta-microseminoprotein Al precursor (msp-Al) (Fragment).
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28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last seq
28-FEB-2003 (Rel. 41, Last ann
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EMBL; AJ010159; CAB38124.1; JOINED.
GO; GO:0005576; C:extracellular; TAS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Maekinen M., Valtonen-Andre C., Lundwal "New world, but not old world, monkeys beta-microseminoprotein.",
Bur. J. Biochem. 264:407-414(1999).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Platyrrhini; Callitrichidae; Saguinus.
                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -!- SIMILARITY: Belongs to the beta-microseminoprotein family.
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InterPro; IPR008735; PSP94.
Pfam; PF05825; PSP94; 1.
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OR 69 (BY SIMILARITY).
OR 69 (BY SIMILARITY).
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Pred. No. 3.6e-24;
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RESULT 6
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097935;
28-FEB-2003
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                                    Saguinus oedipus (Cotton-top tamarin)
Eukaryota; Metazoa; Chordata; Craniat;
Mammalia; Eutheria; Primates; Platyrri
                                                                         MSPE
                                                                                    28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Beta-microseminoprotein El precursor (msp-El)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Maekinen M., Valtonen-Andre C., Lundwal
"New world, but not old world, monkeys
beta-microseminoprotein.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Saguinus oedipus (Cotton-top tamarin).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Platyrrhini; Callitrichidae; Saguin
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SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     similarity).
-!- SUBCELULAR LOCATION: Secreted. Sperm surface (By similari-
-!- SIMILARITY: Belongs to the beta-microseminoprotein family.
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28-FEB-2003 (Rel. 41, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Beta-microseminoprotein J1 precursor (msp-J1).
                     NCBI_TaxID=9490;
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GO:0005576; C:extracellular; NAS
erPro; IPR008735; PSP94.
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AJ010156;
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GR 70 (BY SIMILARITY).
GR 69 (BY SIMILARITY).
BY SIMILARITY.
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                                    Craniata; Vertebrata; Euteleostomi; Platyrrhini; Callitrichidae; Saguin
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Matches 39
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002876;
01-NOV-1997
01-NOV-1997
28-FEB-2003
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                                                                                                SEQUENCE FROM N.A.

MEDILINE=96117078; PubMed=8562060;

Tanaka T., Itahana K., Andoh N., Takeya T., Sato E.;

"Expression of prostatic secretory protein (PSP)-like porcine corpus luteum: isolation and characterization encoding PSP94-like protein.";
                                                                                                                                                                                                                                                    01-NOV-1997 (Rel. 35, Created)
01-NOV-1997 (Rel. 35, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Beta-microseminoprotein precursor (Prostate s.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Signal.
SIGNAL
CHAIN
SEQUENCE or ... TISSUE-Seminal plasma;
TISSUE-Seminal plasma;
MEDLINE=94161559; PubMed=8117114;
Fernlund P., Granberg L.B., Roepstorff P.;
Fernlund P., Granberg beta-microseminoprotein from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the E the European Bioinformatics Institute. There are no rest use by non-profit institutions as long as its content modified and this statement is not removed. Usage by an entitles requires a license agreement (See http://www.isb-or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     similarity).
-!- SUBCELLULAR LOCATION: S-
-!- SIMILARITY: Belongs to
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Eur. J. Biochem. 264:407-414(1999)
                                                                                                                                                                                                      Eukaryota; Metazoa;
Mammalia; Eutheria;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MEDLINE=99421644; PubMed=10491085; Maekinen M., Valtonen-Andre C., Lu. "New world, but not old world, mon
                                                                                                                                                                                                                                  Sus scrofa
                                                                                                                                                                                          NCBI_TaxID=9823;
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erPro; IPR008735; PSP94.
m; PF05825; PSP94; 1.
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out not old world, monkeys
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                                                                                            42:149-156(1995).
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Cetartiodactyla; Suina; Suidae;
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BETA-MICROSEMINOPROTEIN E
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OR 69 (BY SIMILARITY).
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BY SIMILARITY.
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Pred. No. 2.2e
9; Mismatches
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  (See http://www.isb-sib.ch/announce/
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MBMB_RAT

P97580;
T 15-UUL-1998 (Rel. 36, Created)
T 15-UUL-1998 (Rel. 36, Last sequence update)
JT 15-UUL-1998 (Rel. 41, Last annotation update)
DE Beta-microseminoprotein precursor (Prostate sec)
Protein) (Prostate secretory protein PSP94) (PS
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SIGNAL
                                                                                                  MEDLINE=96434855; PubMed=8837741; Fernlund P., Granberg L.B., Larsson "Cloning of beta-microseminoprotein"
                                                                                                                                                                    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae;
NCBI TaxID=10116;
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the European Bioinformatics Institute. Th
use by non-profit institutions as long
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        similarity).

-i- SUBCELLULAR LOCATION: Secreted. Sperm surface (By similari-
-i- TISSUB SPECIFICITY: CORPORA LUTEA, MOSTLY IN THE LUTEAL CE
SURROUNDING BLOOD VESSELS.
-i- SIMILARITY: Belongs to the beta-microseminoprotein family.
            +
                                              <u>+</u>
                                                                                                                                       SEQUENCE FROM N.A., AND PARTIAL SEQUENCE TISSUE=Prostate;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                or send an email to license@isb-sib.ch).
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Arch. Biochem.
                                                                               Arch.
                                                                                         mucosal
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           TRACTS.
SIMILARITY:
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                                                                   h. Biochem. Biophys. 334 FUNCTION: Inhibits the
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surface protein.si
niophys. 334:73-82(1996).
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PYRROLIDONE CARBOXYLIC AC
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            beta-microseminoprotein
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                                             Sperm
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.5e-16;
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Best Local S
Matches 34
                                                                                                                                                                                                                                                                                                                                                                                                                O08540;
15-JUL-1998 (Rel. 36, Created)
15-JUL-1998 (Rel. 36, Last sequence update)
15-JUL-1998 (Rel. 36, Last annotation update)
28-FEB-2003 (Rel. 41, Last annotation update)
Beta-microseminoprotein precursor (Prostate secreted;
protein) (Prostate secretory protein PSP94) (PSP-94).
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           MGD; MGI:97166; Msmb.
InterPro; IPR008735; PSP94.
Pfam; PF05825; PSP94; 1.
                                                                                     between the Swiss Institute of Bioinformatics and the EMBL outstation -
the European Bioinformatics Institute. There are no restrictions on its
use by non-profit institutions as long as its content is in no way
modified and this statement is not removed. Usage by and for commercial
entities requires a license agreement (See http://www.isb-sib.ch/announce/
or send an email to license@isb-sib.ch).
                                                                                                                                                                                 This
                                                                                                                                                                                                                                        STRAIN-CD-1;
Xuan J.W., Mbikay M., Wu D., Guo Y., Chin J.L.;
Xuan J.W. Dikay M., Wu D., Guo Y., Chin J.L.;
"Rapid evolution of PSP94 cDNA sequence in rodents.";
Rapid evolution of PSP94 cDNA sequence in rodents.";
Submitted (MAR-1997) to the EMBL/GenBank/DDBJ databases.
-!- FUNCTION: Inhibits the secretion of FSH by pituitary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOUSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EMBL; U65486; AAB19102.1; -
InterPro; IPR009041; PMP_inl
InterPro; IPR008735; PSP94.
InterPro; PF05825; PSP94; 1.
                                                                                                                                                                                                                                                                                                                                                                               Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia, Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                    SEQUENCE
                                                                                                                                                                                                                                                                                                                                                               NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MSMB MOUSE
                                                          EMBL; U89840;
                                                                                                                                                                                                            SUBCELLULAR LOCATION: Secreted. Sperm surface (By s SIMILARITY: Belongs to the beta-microseminoprotein
                                                                                                                                 SWISS-PROT entry is copyright. It is produced through a collabe en the Swiss Institute of Bioinformatics and the EMBL outst European Bioinformatics Institute. There are no restrictions by non-profit institutions as long as its content is in
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                                                          AAB49683.1; -.
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BETA-MICROSEMINOPROTEIN.

BY SIMILARITY.

BY SIMILARITY.

OR 69 (BY SIMILARITY).

OR 68 (BY SIMILARITY).

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Pred. No. 8.8e
6; Mismatches
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RESULT 11
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ID CHRD\_BRARE
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microseminoprotein (MSP); identification of homologous
EST databases and analysis of their evolution during sp
Protein Sci. 10:2207-2218 (2001).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   P83242;
28-FEB-2003
28-FEB-2003
                                                                                                                                                                                                                                                                                                             PIR; A59385; A59385.
GO; GO:0005576; C:extracellular;
InterPro; IPR008735; PSP94.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Struthio.
NCBI_TaxID=8801;
                                                                                                                                                                                                                                                                            Amidation.
                                                                                                                                                                                                                                                                                                 Pfam;
                                                                                                                                                                                                                                                                                                                                                                 -!- SUBCELLULAR LOCATION: Secreted.
-!- SIMILARITY: Belongs to the beta-microseminoprotein family
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MEDLINE=21490993; PubMed=11604528;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TISSUE=Pituitary;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Archosauria; Aves; Palaeognathae;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Struthio camelus (Ostrich)
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RIENCYRCSCSRDAMRCCTLFHTPVGYNKEKCKVVFNKESCNYDVVQXDDPSKECFV
                       QTDNCETCTCYETBISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSV 59
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                                                                                                                                                  90 AA;
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(Rel. 41, Last ann
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                                                                                          48.4%;
50.9%;
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BETA-MICROSEMINOPROTEIN.
BY SIMILARITY.
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Pred. No. 6.5e
10; Mismatches
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                                                                           Pred. No. 7.6
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Pred. No. 7
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B4AC6FEBE7148652 CRC64;
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No. 6.5e-13;
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16-OCT-2001
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10-OCT-2003
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InterPro; IPR001007; VWF C.
Pfam; PF00093; VWC; 4.
SMART; SM00566; SGG; 3.
SMART; SM00214; VWC; 4.
                                                                                                                                                                                                                                                                                                                  use by non-profit institutions as long as its content is modified and this statement is not removed. Usage by and for entitles requires a license agreement (See http://www.isb-sib.or.send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE OF 1-42 FROM Fujii R., Hibi M., Hi Submitted (MAY-2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Actinopterygii; Ne
Cyprinidae; Danio.
                                                                                   DOMAIN
DOMAIN
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DOMAIN
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Miller-Bertoglio \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE
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                                                                                                                                                                     PROSITE; PS50933; CHRD; 4.
PROSITE; PS01208; VWFC_1; 3.
PROSITE; PS50184; VWFC_2; 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             zebrafish.
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                                                                                                                                                          Developmental
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "Differential regulation of chordin
                                                                                                            DOMAIN
                                                                                                                                              SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                 hours.
- SIMILARITY: :
- SIMILARITY: :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ii R., Hibi M., Hirano T., Shimizu T.;
mitted (WAY-2000) to the EMBL/GenBank/DDBJ databases.
FUNCTION: Dorsalizing factor. Key developmental protein that dorsalizes early vertebrate embryonic tissues by binding to ventralizing TGF-beta family bone morphogenetic proteins (BMPs) and sequestering them in latent complexes (By similarity).
SUBCELLULAR LOCATION: Secreted (By similarity).
TISSUE SPECIFICITY: During gastrulation, levels are highest in the organizer region. Also present in the developing brain and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        paraxial mesoderm and ectoderm.

DEVELOPMENTAL STAGE: First detected shortly
                                                                                                                                                                                                                                                                                                                                                                                                                                                               transition. Levels increase during gastrulation, early somatogenesis, but then decrease and are g
                                                                                                                                                                                                                                                                                             AF034606;
                                                                                                                                                                                                                                                                   ZDB-GENE-990415-33; chd.
                                                                                                                                                                                                                                                                                AB043968;
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2001 (Rel.
2003 (Rel.
precursor
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zoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Reopterygii; Teleostei; Ostariophysi; Cypriniformes;
                                                                                                                                                                                                                                                                                BAB18642.1;
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V.E., Fisher S.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              40, Created)
40, Last sequence update)
42, Last annotation update)
(Chordino protein).
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940
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277
277
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                                                                                                                                                          Repeat;
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CHORDIN.
VWFC 1.
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LINKED (GLCNAC. .
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            (POTENTIAL)
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RESULT 12
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ID FBP1_STF
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Best Local S
Matches 21
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                                                                                                                                                                                    MEDLINE=91285254; PubMed=2060714;
Bisgrove B.W., Andrews M.E., Raff R.A.;
"Fibropellins, products of an EGF repeat-containing
                                                                                                                                                                                                                                                                   MEDLINE=89196806; PubMed=2784773;
Hunt L.T., Barker W.C.;
"Avidin_like domain in an epiderm
                                                                                                                                                                                                                                                                                                                                     "A sea urchin gene growth factor.";
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Strongylocentrotus purpuratus (Purple sea urchin).
Eukaryota; Metazoa; Echinodermata; Eleutherozoa; Echinozoa;
Echinoidea; Euechinoidea; Echinacea; Echinoida; Strongylocentrotidae;
                                                                                                                                                                              unique extracellular matrix structure
                                                                                                                                                                                                                                                                                                                                                            Hursh D.A.,
                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE OF 279-476 AND 781-1064
MEDLINE=87319677; PubMed=3498216;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Fibropellin
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15-MAR-2004
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                                                                                                                                                                                                                                                                                                                            Science 237:1487-1490(1987)
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                                                                         SUBCELLULAR LOCATION: EXTRACELLULAR. IN VESICLES OF UNDERTILIZED EGGS, THEN TO THE BASE OF THE HYATHROUGHOUT DEVELOPMENT AND FINALLY IN THE APICAL EMBRYOS AND EARLY LARVAE.

ALTERNATIVE PRODUCTS:
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                                                                                                                                                          146:89-99(1991).
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ilarity 32.8%;
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(Rel.
(Rel.
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Pred. No. 0.4;
0; Mismatches
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IsoId=P10079-2; Sequence=VSP\_000451; DEVELOPMENTAL STAGE: Moderate levels idering early cleavage, then rapidly in

increases

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in unfertilized

eggs

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Pfam; PF01382; Avidin; 1.

Pfam; PF00381; CUB; 1.

Pfam; PF00008; EGF; 21.

PRINTS; PR00709; AVIDIN.

PRINTS; PR00010; EGFELOOD.

SMART; SM00019; EGF CA; 20.

SMART; SM00179; EGF CA; 20.

PROSITE; PS00577; AVIDIN; 1.

PROSITE; PS00577; AVIDIN; 1.

PROSITE; PS01180; CUB; 1.

PROSITE; PS01180; CUB; 1.

PROSITE; PS01186; EGF 2; 19.

PROSITE; PS01187; EGF CA; 18.

Biotin; Alternative splicing; EGF.
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SIGNAL
CHAIN
CHAIN
DOMAIN
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DOMAIN
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SIMILARITY: Contains 21 EGF-like domains.

SIMILARITY: THE C-TERMINAL DOMAIN OF THIS PROTEIN IS SIMILARITY: THE C-TERMINAL DOMAIN OF THIS PROTEIN IS SIMILARITY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; L08692;
; L08692;
; X17530;
; M17421;
; X17533;
; A40136; A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    P01132;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2; AAA62163.1; -. 0; CAA35571.1; -. 1; AAA30050.1; -. 3; CAA35573.1; -. A40136.
 1EGF
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POTENTIAL.

TIBROPELLIN I

EGF-LIKE 1.

CUB.

EGF-LIKE 3, CAL

EGF-LIKE 4, CAL

EGF-LIKE 6, CAL

EGF-LIKE 7, CAL

EGF-LIKE 10, CAL

EGF-LIKE 11, CAL

EGF-LI
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                                                                CALCIUM-BINDING (ECALCIUM-BINDING (ECALCIUM-BIND
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RESULT 13

RESULT 13

NELL2 MACCOMMENT OF THE PROSITE DE (MEL12 MACCOMMENT)

DE (MEL14 MACCOMMENT M
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                       InterPro; IPR000152; Asx hydroxyl
InterPro; IPR001881; EGF Can.
InterPro; IPR001881; EGF Can.
InterPro; IPR001881; EGF Can.
InterPro; IPR001891; Haminin-G.
InterPro; IPR00107; VWF C.
Pfam; PF00005; EGF; 4.
Pfam; PF00005; EGF; 4.
Pfam; PF00005; EGF CA; 3.
SMART; SM00210; TSPN; 1.
SMART; SM00219; EGF CA; 3.
SMART; SM00214; VWC; 2.
SMART; SM00214; VWC; 2.
SMART; SM00214; VWC; 2.
PROSITE; PS01186; EGF 2; 3.
PROSITE; PS01186; EGF 2; 3.
PROSITE; PS01186; EGF 3; 6.
PROSITE; PS01187; EGF CA; 3.
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Elkins D.A., Rossi J
Submitted (MAY-1996)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          use by non-profit institutions as long modified and this statement is not removed. entitles requires a license agreement (See or send an email to license@isb-sib.ch).
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J. Mol. Biol. 275:725-730(1998).
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-i- SIMILARITY: Contains 1 TSP N-terminal (T-
-i- SIMILARITY: Contains 5 WFC domains.
-i- SIMILARITY: Contains 6 EGF-like domains.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDLINE=98153258; PubMed=9480764;
Beckmann G., Hanke J., Bork P., Reich J.;
Beckmann G., Hanke J., Bork P., Reich J.;
"Merging extracellular domains: fold prediction for laminin G-like
and amino-terminal thrombospondin-like modules based on homology to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mus musculus (Mouse).
Eukaryota; Metazoa; Chordat
Mammalia; Eutheria; Rodenti
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NELL2 OR MEL91.
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16-OCT-2001
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01-NOV-1997
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P00740; 1EDM.
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/ (Rel. 40, Last
nase C-binding f
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PROTEIN KINASE C-BINDING
TSP N-TERMINAL.
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Sciurognathi; Muridae;
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Murinae; Mus.
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RESULT 14

NEL2 RAT

ID NEL2 RAT

STANDARD; PRT; blb.,

AC Q62918;

DT 01-NOV-1997 (Rel. 35, Created)

DT 01-NOV-1997 (Rel. 35, Last sequence updat

DT 16-OCT-2001 (Rel. 40, Last annotation upon the companies of the companies o
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Matches 18
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CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                     Rattus norvegicus (Rat).
Eukaryota; Metazoa; Chordata;
Mammalla; Eutheria; Rodentia;
NCBI_TaxID=10116;
   MEDLINE=98153258;
Beckmann G., Hanke
                                                               TSP N-TERMINAL DOMAIN
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18; Conser
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VWFC 2.

EGF-LIKE 3.

EGF-LIKE 4.

EGF-LIKE 5. CALCIUD

EGF-LIKE 6. CALCIUD

EGF-LIKE 6. CALCIUD

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EGF-LIKE 6. CALCIUD

EGF-LIKE 7.

EGF-LIKE 6. CALCIUD

EGF-LIKE 6. CALCIUD

VWFC 3.

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VWFC 3.

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LEG
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Sciurognathi; Muridae;
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ation update)
NELL2 precursor
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PÉAM; PF00008; EGF; 4.

PÉAM; PF00093; VAC; 3.

PÉAM; PF00093; VAC; 3.

SMART; SM00179; EGF CA; 3.

SMART; SM00210; LAMG; 1.

SMART; SM00210; TSPN; 1.

SMART; SM00214; VWC; 3.

PROSITE; PS00010; ASX HYDROV
PROSITE; PS00012; EGF 1; 1.

PROSITE; PS01186; EGF 2; 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Glycoprotein;
SIGNAL
CHAIN
      DISULFID
DISULFID
DISULFID
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DISULFID
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PROSITE;
PROSITE;
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                                                                                                                                                                                                                                                                                                                                                                                                                                           DOMAIN
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DOMAIN
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J. Mol. Biol. 275:725-730(1998).

-i- SUBUNIT: Homotrimer. Binds to PKC beta-1

-i- SUBCELLULAR LOCATION: Secreted.

-i- SIMILARITY: Contains 1 TSP N-terminal (T-1-

-i- SIMILARITY: Contains 5 WFC domains.

-i- SIMILARITY: Contains 6 EGF-like domains.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "Merging extracellular domains: fold prediction for laminin G-like and amino-terminal thrombospondin-like modules based on homology to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     InterPro; IPR000152; Asx_hydroxyl_S.
InterPro; IPR008895; ConA_like_lec_gl.
InterPro; IPR001881; EGF_Ca.
InterPro; IPR0018209; EGF_like.
InterPro; IPR001791; Laminin_G.
InterPro; IPR001197; VWF_C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EMBL; U48245; AAC72245.1; -. HSSP; P00740; 1EDM.
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PS01187;
PS01208;
PS50184;
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IPR003129; TSPN.
IPR001007; VWF_C.
        ASX_HYDROXYL;

EGF_1; 1.

EGF_2; 4.

EGF_3; 6.

EGF_CA; 3.

VWFC_1; 2.

VWFC_2; 3.
        \begin{array}{c} 8156 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 \\ 656 
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in; Repeat; Signal.
POTERNIAL.
POTENKIAL.
PROTEIN KIMASE C-BINDING PITSP N-TERMINAL.
VWFC 1.
VWFC 2.
EGF-LIKE 1.
EGF-LIKE 2.
CALCIUM-BINDING EFF-LIKE 4.
EGF-LIKE 5. CALCIUM-BINDING EGF-LIKE 6. CALCIUM-BINDING EGF-LIKE 6. CALCIUM-BINDING EGF-LIKE 7.
BY SIMILARITY.
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Matches 18
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10-OCT-2003 (Rel. 42, Created)
10-OCT-2003 (Rel. 42, Last sequence update)
10-OCT-2003 (Rel. 42, Last annotation update)
10-OCT-2003 (Rel. 42, Last annotation update)
Nuclear anchorage protein 1 (Anchorage 1 prot
ANC-1 OR ZK973.6 OR T03A1.3/T03A1.4.
Caenorhabditis elegans.
Eukaryota; Metazoa; Nematoda; Chromadorea; Rh
Rhabditidae; Peloderinae; Caenorhabditis.
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Submitted
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INTERACTION WITH
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Science 298:406-409(2002)
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 expressed in L1 larvae, oil domains are composed ues. The last repeat is pawai (CB4856), Australia
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EMBL; AY157938; AAN35200.1; -.
EMBL; AC006834; AAF40010.3; -.
EMBL; AY126454; AAM95163.1; -.
HSSP; P46339; 1QAG.
WormPep; ZK973.6; CE33588.
InterPro; IPR003103; BAG.
InterPro; IPR003103; BAG.
InterPro; IPR003715; Calponin-like.
InterPro; IPR002715; Calponin-like.
InterPro; IPR002017; Spectrin.
SMART; SM00264; BAG; 6.
SMART; SM00033; CH; 2.
PROSITE; PS000019; ACTININ 2; FALSE NEG.
PROSITE; PS00021; CH; 2.
PROSITE; PS00021; CH; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on it use by non-profit institutions as long as its content is in no was modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DOMAIN
DOMAIN
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DOMAIN 1 8494 CYTODIACMTO (DOMAIN)
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-!- SIMILARITY: Belongs to the nesprin family.
-!- SIMILARITY: Contains 1 actin-binding domain.
-!- SIMILARITY: Contains 2 calponin-homology (CH)
-!- SIMILARITY: Contains 1 Klarsicht domain.
DOMAIN
DO
                                                                                                                                                                                                                                                                                                                                                                                                                                                  REPEAT
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DOMAIN: The Klarsicht domain, which contains a potential transmembrane domain, is essential for the nuclear envelope
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6001
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ANCHOR FOR TYPE IV MEMBRANE PROTEIN (POTENTIAL).
PERINUCLEAR SPACE (POTENTIAL).
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Job time : 12.871 secs
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GenCore version Copyright (c) 1993 - 2004

5.1.6 Compugen Ltd

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hypothetical prote hypothetical prote protein C17B7.2 [i

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            A;Molecule type: protein
A;Residues: 21, 1 X , 23-34 <WBI>
A;Residues: 21, 1 X , 23-34 <WBI>
A;Residues: 21, 1 X , 23-34 <WBI>
A;Resperimental source: gastric juice
R;Nolet, S.; Mbikay, M.; Chretien, M.
Biochim. Biophys. Acta 1089, 247-249, 1991
Biochim. Biophys. Acta 1089, 247-249, 1991
A;Title: Prostatic secretory protein PSP(94): gene organization and promoter sequence
A;Reference number: S16237; MUID:91274357; PMID:2054385
A;Accession: S16238
                                                                                                                                                                                                                                                                    A; Cross-references: GB:MI5885; NID:g338414; PIDN:AAA36635.1; PID:g338415
A;Cross-references: GB:MI5885; NID:g338414; PIDN:AAA36635.1; PID:g338415
A;Cross-references: GB:MI5885; NID:g338414; PIDN:AAA36635.1; PID:g338415
A;Akiyama, K.; Yoshioka, Y.; Schmid, K.; Offner, G.D.; Troxler, R.F.; Tsuda,
Biochim. Biophys. Acta 829, 288-294, 1985
A;Title: The amino acid sequence of human beta-microseminoprotein.
A;Reference number: A29777; MUID:8519974; PMID:3995056
A;Reference reference of human seminal plasma beta-inhibin. FRBS Lett. 175, 349-355, 1984
A;Title: Complete amino acid sequence of human seminal plasma beta-inhibin. FA;Reference number: A30984; MUID:85004133; PMID:6434350
A;Accession: A30984
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A;Molecule type: DNA
A;Residues: 1-114 <GRE>
A;CRESIdues: 1-114 <GRE>
A;CRESIdues: NID:g514370; PIDN:AAA59871.1; PID:g514372
A;Cross-references: GB:M34376; NID:g514370; PIDN:AAA59871.1; PID:g514372
A;Mbikay, M.; Nolet, S.; Fournier, S.; Benjannet, S.; Chapdelaine, P.; Paradis, G.; Dub
DNA 6, 23-29, 1987
A;Title: Molecular cloning and sequence of the cDNA for a 94-amino-acid seminal plasma
A;Reference number: A26451; MUID:87161231; PMID:3829888
A;Accession: A26451
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   beta-microseminoprotein precursor - human
N;Alternate names: beta-inhibin; prostatic secretory protein; PSP-94; seminal
C;Species: Homo sapiens (man)
C;Date: 13-Jul-1990 #sequence revision 13-Jul-1990 #text_change 20-Aug-1999
C;Accession: A34567; A26451; A29777, A30984; A60673; S16238; I52682
                                                                                                                                                A;Molecule type: protein
A;Molecule type: protein
A;Residues: 21-112,'G', 114 <SBI>
A;Residues: 21-112,'G', 114 <SBI>
A;Residues: R; Andersson, C; Murne, A.; Rannevik, G.; Lindstroem, C.
Am. J. Pathol. 137, 593-604, 1990
A;Title: Beta microseminoprotein is not a prostate-specific protein.
A;Reference number: A60673; MUID:90379237; PMID:2205099
A;Accession: A60673
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   R;Green, C.B.; Liu, W.Y.; Kwok, S.C.M.
Biochem. Biophys. Res. Commun. 167, 1184-1190, 1990
A;Title: Cloning and nucleotide sequence analysis of the human beta-microseminoprotein A;Title: Cloning and nucleotide sequence analysis of the human beta-microseminoprotein A;Reference number: A34567; MUID:90211299; PMID:2322265
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Molecule type: mRNA
A;Residues: 1-114 <MBI>
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Prediction

R.; Hara,

plasma п

Result No.

Minimum Maximum

Database

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N;Alternate names: prostatic secretory protein PSP94
C;Species: Macaca mulatta (rhesus macaque)
C;Date: 02-Jun-1995 #sequence_revision 02-Jun-1995 #text_change 20-Aug-1999
C;Accession: S16237; A54663
R;Nolet, S; Mohkay, M; Chretien, M.
Biochim. Biophys. Acta 1089, 247-249, 1991
Biochim. Biophys. Acta 1089, 247-249, 1991
A;Title: Prostatic secretory protein PSP(94): gene organization and promoter sequence
A;Reference number: S16237; MUID:91274357; PMID:2054385
A;Accession: S16237
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A;Note: the authors translated the codon ACT for residue 54 as Trp
R;Liu, A.Y., Bradner, R.C., Vessella, R.L.
Cancer Lett. 74, 91-99, 1993
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                                                                                                                                                                         A;Introns: 1/3; 37/1; 72/2
C;Superfamily: seminal plasma protein
F;1-20/Domain: signal sequence #status predicted <SIG>
                                                                                                                                                                                                                                                                                                                                                                                                                     A,Cross-references: EMBL:XS7932; NID:g38094; PIDN:CAA41003.1; PID:g829152
A,Note: the authors translated the codon ACT for residue 54 as Trp
R,Notet, S.; St-Louis, D.; Mbikay, M.; Chretien, M.
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A;Map position: 10g11.2-10g11.2
A;Introns: 1/3; 37/1; 72/2
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A;Molecule type: mRNA
A;Residues: 1-114 <RES>
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                                                                                                                                                                                                                                                                                                                                                         A;Title: Rapid evolution of prostatic protein PSP-94 suggested by sequence divergence A;Reference number: A54663; MUID:91244325; PMID:2037304
                                                                                                                                                                                                                                                                                                                                                                                                       R;Nolet, S.; St-Louis, D. Genomics 9, 775-777, 1991
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  KWKTDNCERCTCYKTEIICCTLIATPVGYDKKKCQRIFKKEDCKYIVVEKKNPKKTCPID 110
                     EWQTDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDFXKTCSVS 60
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100.0%; Pred. No. 1.8e-31;
htive 0; Mismatches 0;
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Pred. No. 4e-25;
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A,Experimental source: Pituitary extracts A_i,Note: Structurally related to mammalian Prostate Secretory Protein C_i,Keywords: amidated carboxyl end C_i,Keywords: amidated carboxyl end C_i,2-16,34-70,37-46,39-47,61-84/Disulfide bonds: #status predicted E_i,90/Modified site: amidated carboxyl end (Val) #status experimental
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beta-microseminoprotein - pig
beta-microseminoprotein - pig
C;Species: Sus scrofa domestica (domestic
C;Date: 19-Mar-1997 #sequence_revision 19-
submitted to the EMBL Data A; Reference number: Z19001 A; Accession: T18649
                                                               C;Accession: T
R;McMurray, A.
                                                                                                         hypothetical protein B0024.14 - Caenorhabditis elegans C;Species: Caenorhabditis elegans C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #te
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Beta-microseminoprotein - Ostrich (Struthio camelus)
C;Species: Ostrich (Struthio camelus)
C;Date: 31-Dec-2001 #sequence_revision 31-Dec-2001 #
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A;Molecule type: protein
A;Residues: 1-91 <FER>
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A;Tille: Amino acid sequence of beta-microseminoprotein A;Reference number: S41663; MUID:94161559; PMID:8117114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Molecule type: protein A; Residues: 1-90 < LAZ>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           submitted to the Protein Sequence Database,
A;Description: Characterization of ostrich
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C; Superfamily: seminal plasma protein
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Status: preliminary
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29; Conserv
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#sequence_revision 31-Dec-2001 #text_change 11-Jan-2002
                                                                                                            #sequence_revision 15-Oct-1999 #text:_change 15-Oct-1999
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50.9%;
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Pred. No. 9e-12;
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19-Mar-1997 #text_change 31-Oct-1997
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hypothetical protein F4M15.5 [imported] - Arabidopsis thaliana C;Species: Arabidopsis thaliana (mouse-ear cress) C;Species: Arabidopsis thaliana (mouse-ear cress) C;Date: 02-Mar-2001 #sequence_revision 02-Mar-2001 #text_change 31 C;Accession: A;56344 R;Theologis, A; Ecker, J.R.; Palm, C.J.; Federspiel, N.A.; Kaul, Chin, C.W.; Chung, M.K.; Conn, L.; Conway, A.B.; Conway, A.R.; Cransen, N.F.; Hughes, B.; Huizar, L. Mature 408, 816-820, 2000 A;Authors: Hunter, J.L.; Jenkins, J.; Johnson-Hopson, C.; Khan, S. C.A.; Li, J.H.; Li, Y.; Lin, X.; Liu, X.; Liu, Z.A.; Luros, J.S. Rizzo, M.; Rooney, T.; Rowley, D.; Sakano, H. A;Authors: Salzberg, S.L.; Schwartz, J.R.; Shinn, P.; Southwick, A ker, M.; Wu, D.; Yu, G.; Fraser, C.M.; Venter, J.C.; Davis, R.W.
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A96544
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C;Species: Caenorhabditis elegans
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Science 282,
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Best Local S
Matches 20
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;Superfamily:
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;Note: published errata appeared
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ;Title: Genome sequence of the nematode C. elegans: a platform ;Reference number: A75000; MUID:99069613; PMID:9851916
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Best Local
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20; Conser
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Pred. No. 0.84
8; Mismatches
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Pred. No. 0.29;
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in Science 283, 35,
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                                                                                                                             C.J.; Federspiel, N.A.; Kaul, S.; Wi
Conway, A.B.; Conway, A.R.; Creasy,
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     ; Southwick, Davis, R.W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        and www_sanger.ac.uk/Projects/C_ele, 1999; Science 283, 2103, 1999; and
                                                        C.; Khan, S.; Khaykin, E.;
; Luros, J.S.; Maiti, R.; Ma
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                      A.M.; Sun,
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reasy, T.H.; Dev
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                                                        Marziali,
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                    Tallon,
                                                                                                                             Alonso,
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A;Map
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A; Contents: annotation
C; Comment: EGF homology repeats 10-17 are spliced out in (
C; Superfamily: C1r/C1s repeat homology; EGF homology
F;1-19/Domain: signal sequence #status predicted «SIG»
F;20-1064/Product: fibropellin I #status predicted «FIB»
F;23-54/Domain: EGF homology «EGO1»
F;57-175/Domain: C1r/C1s repeat homology «C1R»
F;180-211/Domain: EGF homology «EGO2»
F;218-249/Domain: EGF homology «EGO2»
F;256-287/Normain: EGF homology
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             N;Contains: alternatively spliced fibropellin Ib (EGFI)
C;Species: Strongylocentrotus purpuratus (purple urchin)
C;Date: 13-May-1992 #sequence_revision 17-Sep-1997 #text_change
C;Accession: A40136; B40136; C40136; A29316; A43131
R;Delgadillo-Reynoso, M.G.; Rollo, D.R.; Hursh, D.A.; Raff, R.A.
Mol. Evol. 29, 314-327, 1989
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A40136
fibropellin Ia - sea urchin (Strongylocentrotus purpuratus)
N;Alternate names: epidermal growth factor homolog precurso
N;Contains: alternatively spliced fibropellin Ib (EGFI)
N;Contains:
                                                                                                                                                                                                                                                  FASEB J. 3, 1760-1764, 1989
A;Title: Avidin-like domain in an epidermal growth factor A;Reference number: A43131; MUID:89196806; PMID:2784773
                                                                                                                                                                                                                                                                                                                                     A;Molecule type: mRNA
A;Residues: 'S',280-481,786-1064 <HUR>
A;Cross-references: GB:M17421; NID:g161474; PIDN:AAA30050.1;
                                                                                                                                                                                                                                                                                                                                                                                                                            A;Reference number: A29316; MUID:87319677; PMID:3498216 A;Accession: A29316
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Title: Sequence and analysis of chromosome 1 of the plant Arabidopsis. A;Reference number: A86141; MUID:21016719; PMID:11130712 A;Accession: A96544
                                                                                                                                                                                                                                                                                                                    R; Hunt, L.T.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       R;Hursh, D.A.; Andrews, M.E.; Raff, R.A. Science 237, 1487-1490, 1987
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Status: preliminary; not compared with A;Molecule type: DNA A;Residues: 'K', 747-821,898-978 <DE3>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A, Title: Structural analysis of the uEGF gene in the sea A, Reference number: A40136; MUID:90112459; PMID:2514273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Molecule type: DNA
A; Residues: 1-154 <STO>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; Molecule type: DNA
A; Residues: 181-251,329-370,'R',372-408,'RA',411-441 <DE2>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A;Cross-references: GB:X17530; NID:g10225; PID:g667061
A;Accession: B40136
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Gene: F4M15.5
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Pred. No. 1.3;
17; Mismatches
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1.3;
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F;332-363/Domain:
F;370-401/Domain:
F;408-439/Domain:
F;446-477/Domain:
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A;Introns: 42/3
C;Superfamily:
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F;489-504,506-515,522-533,527-542,544-553,560-571,565-580,582-591,598-609,603-618,620-630,810-819,826-837,831-846,848-857,864-875,869-884,886-895,902-913,907-922,924-933/Disul
                                                                     hypothetical protein F19C6.3 - Caemorhabditis elegans C;Species: Caemorhabditis elegans C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_C;Accession: T21113 R;Harris, B. submitted to the EMBL Data Library, January 1995 A;Reference number: Z19376
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A;Reference number:
A;Accession: T21113
A;Status: prelimina:
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T21113
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A; Accession: T28990
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A; Molecule type: DNA
A; Residues: 1-198 < ROH>
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Matches 14
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   preliminary; translated from
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Caenorhabditis elegans hypothetical protein C0187.7
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Bristol N2; clone T28A11
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Pred. No.
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A;Molecule type: DNA
A;Residues: 1-429 <WIL>
A;Cross-references: EMBL:Z48006; PIDN:CAA88048.1; GSPDB:GN00028; CESP:F19C6.3
A;Experimental source: clone F19C6
C;Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    R;Du, Z.; Scheet, P. submitted to the EMBL Data Library, May 1998 submitted to the EMBL Data Library, May 1998 A;Description: The sequence of C. elegans cosmid A:Reference number: Z21289
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A;Molecule type: mRNA
A;Residues: 1-1535 «REL»
A;Cross-references: GB:UII052; NID:g531384;
A;Cross-references: GB:UII052; NID:g531384;
C;Superfamily: peroxidasin; myeloperoxidase
F;19-44/Domain: proteoglycan amino-terminal
F;661-1350/Domain: myeloperoxidase homology
                                                                                                                                           R;Nelson, R.E.; Fessler, L.I.; Takagi, Y.; Blumberg, B.;
EMBO J. 13, 3438-3447, 1994
A;Title: Peroxidasin: a novel enzyme-matrix protein of I
A;Reference number: S46224; MUID:94341255; PMID:8062820
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A;Introns: 19/1; 39/3; 71/3; 84/3; 143/3; 374/3; 551/2; 594/1;
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A;Map position: X
                                                                                                                                                                                                                                                                     peroxidasin
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                                                                                                                         A;Reference number: A;Accession: S46224
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Best Local S
Matches 15
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                                                                                                      status: preliminary
                                                                                                                                                                                              ;Accession: S46224
:Nelson, R.E.; Fest
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nilarity 34:1%;
Conservative
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De: strain Bristol N2; clone T03A1
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                                                                                                                                                                                                L.I.; Takagi, Y.; Blumberg,
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Pred. No.
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                   PIDN:AAA61568.1; PID:g531385 homology; proteoglycan amino homology <PAH4>
     <MPX>
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                                                                                                                                                                                                  B.; Keene, D.R.; Olson,
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                                           amino-terminal
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Query Match

Local Similarity

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                                                                                                                  אומים: ביין DNA
Molecule type: DNA
Residues: 1-355 <MIN>
Cross-references: EMBL:U80029; PIDN:AAB37587.1; GSPDB:GN00023; CESP:T20D4.10; Cross-references: Strain Bristol N2; Clone T20D4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Exposito, J.Y.; Boute, N.; Deleage, G.; Garrone, R. ur. J. Biochem. 234, 59-65, 1995
ur. J. Biochem. 234, 59-65, 1995
Title: Characterization of two genes coding for a similar four-cysteine motif of the Reference number: S63985; MUID:96096722; PMID:8529669
Recession: S63986
                                                                         ;Map position: 5;Introns: 44/3;
                                                                                                                                                                                                                                               Reference number:
Accession: T29944
                                                                                                                                                                                                                                                               ubmitted to the EMBL Data Library, November 1996;Description: The sequence of C. elegans cosmid T20D4;Reference number: Z20712
                                                                                                                                                                                                                                                                                                                                                                            ypothetical protein T20D4.10 - C
Species: Caenorhabditis elegans
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ;Introns: 73/1; 136/2; 221/1; 369/1; 517/1; 659/1; 799/1; 948/1; 1093/1; 1236/1; Superfamily: von Willebrand factor type C repeat homology;Reywords: extracellular matrix;15-73/Domain: von Willebrand factor type C repeat homology <VWC>
Query Match
Best Local Similarity
Matches 12; Conserv
                                                                                                                                                                                                                         Status: preliminary; translated from GB/EMBL/DDBJ
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:Residues: 1-658,'G',660-870,'G',872-901,'H',903-1185,'T',1187-1214,'Y',1216-1376 <EXW:
:Cross.references: EMBL:X89804
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Reference number: S64637
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Exposito,
                                                                                                                                                                                                                                                                                                                                                      Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 15-Oct-1999
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Date: 20-ull-1996 #sequence_revision 08-Nov-1996 #text_change 25-Apr-1997
Accession: S63986; S64658
                                                                                                                                                                                                                                                                                                                                        Accession:
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Pred. No. 13;
5; Mismatches
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A;Molecule type: mRNA
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A;Residues: 1-1178 <-LAW>
A;Residues: 1-1178 <-LAW>
A;Residues: GB:M60853; NID:g212763; PIDN:AAA51437.1; PID:g212764
A;Cross-references: GB:M60853; NID:g212763; PIDN:AAA51437.1; PID:g212764
C;Superfamily: thrombospondin 1; EGF homology; thrombospondin type 1 repeat homology <VWC>
F;325-383/Domain: thrombospondin type 1 repeat homology <THR1>
F;445-498/Domain: thrombospondin type 1 repeat homology <THR2>
F;449-555/Domain: thrombospondin type 1 repeat homology <THR3>
F;499-555/Domain: thrombospondin type 1 repeat homology <THR3>
F;658-697/Domain: EGF homology <EGF>
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Search completed: March 11, Job time: 19.0645 secs
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A;Title: Cloning and sequencing of chicken
A;Reference number: A39804; MUID:91217026;
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45	44	43	42	41	40	39	3 8	37	36	3 5	ω 4.	ω ω	32	31	30	
54.5	54.5	ហ	55	55	55.5	55.5	55 5	55.5	55.5	55.5	56	56	ភ6. ភ	56.5	57	
20.3	20.3	20.5	20.5	20.5	20.7	20.7	20.7	20.7	20.7	20.7	20.9	20.9	21.1	21.1	21.3	
229	159	927	915	810	3133	3084	2229	1376	629	509	649	186	2477	961	2481	
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A69762	T33696	T21772	T21773	T10756	852093	MMMSA	T16199	863986	T25571	I45713	H72283	E86320	S14428	H86181	A43908	
hypothetical prote	hypothetical prote	hypothetical prote	hypothetical prote	Nel-homolog protei	hemocytin - silkwo	laminin alpha-1 ch	hypothetical prote	collagen alpha 5 c	hypothetical prote	Dpp receptor TKV,	beta-galactosidase	F6A14.21 protein -	fibronectin precur	hypothetical prote	fibronectin - Afri	

plasma

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A;Experimental source: gastric juice R;Nolet, S.; Mbikay, M.; Chretien, M. Biochim. Biophys. Acta 1089, 247-249, 1991
A;Title: Prostatic secretory protein PSP(94): gene organization and promoter sequence A;Reference number: S16237; MUID:91274357; PMID:2054385
A;Accession: S16238
A;Molecule type: DNA R;Seidah, N.G.; Arbatti, N.J.; Rochemont, J.; Sheth, A.R.; Chretien, M. FEBS Lett. 175, 349-355, 1984
A;Title: Complete amino acid sequence of human seminal plasma beta-inhibin. A;Reference number: A30984; MUID:85004133; PMID:6434350
A;Accession: A30984 A;Cross-references: GB:M15885; NID:g338414; PIDN:AAA36635.1; PID:g338415 R;Akiyama, K.; Yoshioka, Y.; Schmid, K.; Offner, G.D.; Troxler, R.F.; Tsuda, Biochim. Biophys. Acta 829, 288-294, 1985 A;Title: The amino acid sequence of human beta-microseminoprotein. A;Reference number: A29777; MUID:85199974; PMID:3995056 A;Title: Beta microseminoprotein is not a prostate-specific protein A;Reference number: A60673; MUID:90379237; PMID:2205099 A;Accession: A60673 A; Molecule type: protein
A; Residues: 21-112'G',114 <SEI>A; Residues: H.; Andersson, C.; Murne,
Am. J. Pathol. 137, 593-604, 1990 A;Cross-references: GB:M34376; NID:g514370; PIDN:AAA59871.1; PID:g514372 R;Mbikay, M.; Nolet, S.; Fournier, S.; Benjannet, S.; Chapdelaine, P.; Paradis, G.; DNA 6; 23-29, 1987 C;Date: 13-Jul-1990 #sequence\_revision 13-Jul-1990 #text\_change 20-Aug-1999 C;Accession: A34567; A26451; A29777; A30984; A60673; S16238; I52662 C;Accession: C.B.; Liu, W.Y.; Kwok, Schem. Biophys. Res. Commun. 167, 1184-1190, 1990 A;Title: Cloning and nucleotide sequence analysis of the human beta-microser A;Reference number: A34567; MUID:90211299; PMID:2322265 A; Molecule type: protein A; Residues: 21, 'X', 23-34 <WEI> A;Title: Molecular cloning and sequence of the cDNA for a 94-amino-acid seminal plasma A;Reference number: A26451; MUID:87161231; PMID:3829888 A;Accession: A26451 A;Molecule type: protein
A;Residues: 21-58,'PT',61-113 <AKI> A;Accession: A29777 A; Molecule type: mRNA A; Residues: 1-114 < MB A;Molecule type: DNA A;Residues: 1-114 <GRE> A;Status: not compared with conceptual translation A; Reference number: A; Accession: A34567 C;Species: Homo sapiens (man) C;Date: 13-Jul-1990 #sequence beta-microseminoprotein precursor - human N;Alternate names: beta-inhibin; prostatic secretory protein; PSP-94; seminal 1-114 <MBI> A.; Rannevik, G.; Lindstroem, ALIGNMENTS beta-microseminoprotein C.; Lilja,

Prediction

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A; Introns: 1/3;
C; Superfamily:
F;1-20/Domain:
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C;Date: 02-Jun-1995 #sequence_revision 02-Jun-1995 #text_change 20-Aug-1999
C;Accession: S16237; A54663
R;Nolet, S; Mbikay, M; Chretien, M.
Biochim. Biophys. Acta 1089, 247-249, 1991
Biochim. Biophys. Acta 1089, 247-249, 1991
A;Title: Prostatic secretory protein PSP(94): gene organization and promoter sequence A;Reference number: S16237; MUID:91274357; PMID:2054385
A;Accession: S16237
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A;Introns: 1/3; 37/1; 72/2
C;Superfamily: seminal plasma px
C;Keywords: semen
F;1-20/Domain: signal sequence #
F;21-114/Product: seminal plasma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Cross-references: EMBL:X57932; NID:g38094; PIDN:CAA41003.1; PID:g829152 A;Note: the authors translated the codon ACT for residue 54 as Trp R;Nolet, S.; St-Louis, D.; Mbikay, M.; Chretien, M. Genomics 9, 775-777, 1991 Genomics 9, 775-777, 1991 A;Title: Rapid evolution of prostatic protein PSP-94 suggested by sequence A;Title: Rapid evolution of prostatic protein PSP-94 suggested by sequence A;Title: Rapid evolution of prostatic protein PSP-94 suggested by sequence A;Title: Rapid evolution of prostatic protein PSP-94 suggested by sequence A;Title: Rapid evolution of prostatic protein PSP-94 suggested by sequence A;Title: Rapid evolution of prostatic protein PSP-94 suggested by sequence A;Title: Rapid evolution of prostatic protein PSP-94 suggested by sequence A;Title: Rapid evolution of prostatic protein PSP-94 suggested by sequence A;Title: Rapid evolution of prostatic protein PSP-94 suggested by sequence A;Title: Rapid evolution of prostatic protein PSP-94 suggested by sequence A;Title: Rapid evolution of prostatic protein PSP-94 suggested by sequence A;Title: Rapid evolution of prostatic protein PSP-94 suggested by sequence A;Title: Rapid evolution of prostatic protein PSP-94 suggested by sequence A;Title: Rapid evolution of prostatic protein PSP-94 suggested by sequence A;Title: Rapid evolution of protein PSP-94 suggested by sequence A;Title: Rapid evolution PSP-94 suggested by sequence A;Title: Rapid evolution PSP-94 suggested by sequence A;Title: Rapid evolu
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A;Cross-references: EMBL:X57928; NID:g35760; PIDN:CAA41002.1; PID:g825707
A;Note: the authors translated the codon ACT for residue 54 as Trp
RESULT 3
S41663
beta-microseminoprotein
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A;Residues: 1-114 <NOL>
A;Cross-references: GB:M92161; NID:g342280;
C;Genetics:
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A; Residues: 1-114 < NO2>
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Pred. No. 5.8e-19;
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Pred. No. 6.3e-25;
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PSP57 - human
C.Species: Homo sapiens (man)
C.Species: Homo sapiens (man)
C.Species: Homo sapiens (man)
C.Date: 21-Dec-1996 #sequence_revision 06-Jun-1997 #text_change 20-Aug-1999
C.Accession: G01730
C.Acce
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A;Title: Analysis of the gene family encoding the Entamoeba A;Reference number: Z16622; MUID:94158976; PMID:8114826
A;Accession: T09229
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R;Fernlund, P.; Granberg, L.B.; Roepstorff, P.
Arch. Biochem. Biophys. 309, 70-76, 1994
A;Title: Amino acid sequence of beta-microseminoprotein
A;Reference number: S41663; MUID:94161559; PMID:8117114
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C;Date: 19:
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A;Accession: G01730
A;Status: preliminary; translated from GB/EMBL/DDBJ
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C;Superfamily: seminal plasma protein
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A; Residues: 1-1292 < PUR>
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A; Residues: 1-77 < XUA>
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                                                   KCMDLKGNKHPINSEWQTDN--
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Pred. No. 0.00034;
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Pred. No. 3.3e-09
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A;Residues: 1-1280 <TAN>
A;Cross-references: GB:M60498; NID:g158958; PID:g158959
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J. Biol. Chem. 270, 26025-26028, 1995

A;Title: A sperm membrane protein that binds in a species-specific manner to A;Reference number: 221464; MUID:96064658; PMID:7592795
                                                                                                                                                                                         R;Mancuso,
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.;Cross-references: EMBL:U40024; NID:g1066465;
.;Experimental source: strain Meishan; testis
                                                  ;Molecule type: DNA
;Residues: 1-2813 <
                                                                                          ;Reference number: A34480; MUID:90062044; PMID:2584182;Accession: A34480
                                                                                                                                    ;Species: Homo sapiens (man); Date: 04-Dec-1986 #sequence revision 30-Jun-1993 #text change 22-Jun-1999; Date: 04-Dec-1986 #sequence revision 30-Jun-1998; A25469; A25366; S23618; Accession: A34480; S02377; A37139; S23676; A25298; A25469; A25366; S23618; Mancuso, D.J.; Tuley, E.A.; Westfield, L.A.; Worrall, N.K.; Shelton-Inloes, Biol. Chem. 264, 19514-19527, 1989; Title: Structure of the gene for human von Willebrand factor.
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¡Species: Entamoeba histolytica
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;Species: Sus scrofa domestica (domestic pig)
:Date: 02-Sep-2000 #sequence_revision 02-Sep-2000 #text_change
;Accession: T34022
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Residues: 1-2813 <MAN>
Cross-references: EMBL:M25864
Bonthron, D.; Orkin, S.H.
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ti. Acad. Sci. U.S.A. 88, 1849-1853, 1991
Primary structure of the 170-kDa surface lectin of
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                                          Reference number: A90504;
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Proc. Natl. Acad. Sci. U.S.A. 82, 6394-6398, 1985.
A;Title: Cloning and characterization of two cDNAs coding A;Peference number: A94060; MUID:86016708; PMID:2864688
A;Molecula 194060
A;Molecule type: mRNA
A;Residues: 'WA',739','C',744-769,'H',771-788,'A',790-803,'S',805-873;1289-1471,'D',
A;Rote: the authors translated the codon TCG for residue 2168 as Cys
R;Shelton-Inloes, B.B., Titani, K.; Sadler, J.E.
Biochemistry 25, 3164-3171, 1986
B;Title: CDNA sequences for human von Willebrand factor reveal five types of repeat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A;Note: this is a revision to the sequence from reference A91044 R;Shalton-Inloes, B.B.; Broze Jr., G.J.; Miletich, J.P.; Sadler, Biochem. Biophys. Res. Commun. 144, 657-665, 1987 A;Title: Evolution of human von Willebrand factor: cDNA sequence A;Reference number: S23618; MUID:87213253; PMID:3495266 A;Accession: S23618
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A; Residues: 1-470, 'V', 472-483, 'R', 485-1022, 'K', 1024-1025, 'E', 1027-1400
A; Cross-references: EMBL: X04146
A; Note: this sequence has been revised in reference A91056
R; Verweij, C.L.; Diergaarde, P.J.; Hart, M.; Pannekoek, H.
EMBO J. 5, 3074, 1986
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A; Residues: 990-1947 < MAD>
A; Residues: 990-1947 < MAD>
A; Residues: 990-1947 < MAD>
A; Cross-references: GB: M60675; NID: g340357; PIDN: AAA61295.1; PID: g553810
A; Note: the authors translated the codon CGC for residue 156 as Gln
A; Note: the authors translated the codon CGC for residue 156 as Gln
A; Collins, C.J.; Underdahl, J.P.; Levene, R.B.; Ravera, C.P.; Morin, M.J.; Dombalagian, Proc. Natl. Acad. Sci. U.S.A. 84, 4393-4397, 1987
Proc. Natl. Acad. Sci. U.S.A. 84, 4393-4397, 1987
A; Title: Molecular cloning of the human gene for von Willebrand factor and identification of the human gene for von Willebrand factor and identification of the human gene for von Willebrand factor and identification of the human gene for von Willebrand factor and identification of the human gene for von Willebrand factor and identification of the human gene for von Willebrand factor and identification of the human gene for von Willebrand factor and identification of the human gene for von Willebrand factor and identification of the human gene for von Willebrand factor and identification of the human gene for von Willebrand factor and identification of the human gene for von Willebrand factor and identification of the human gene for von Willebrand factor and identification of the human gene for von Willebrand factor and identification of the human gene for von Willebrand factor and identification of the human gene for von Willebrand factor and identification of the human gene for von Willebrand factor and identification of the human gene for von Willebrand factor and identification of the human gene for von Willebrand factor and identification of the human gene for von Willebrand factor and identification of the human gene for von Willebrand factor and identification of the human gene for von Willebrand factor and identification of the human gene for von Willebrand factor and identification of the human gene for von Willebrand factor and identification of the human gene for von Willebrand factor and identif
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A;Title: Human von Willebrand factor gene and pseudogene: A;Reference number: A37139; MUID:91105089; PMID:1988024
A;Accession: A37139
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R;Verweij, C.L.; Diergaarde, P.J.; Hart, M.; Pannekoek, H.
EMBO J. 5, 1839-1847, 1986
A;Title: Full-length von Willebrand factor (vWF) cDNA encodes a highly repetitive prote A;Reference number: A91044; MUID:87004550; PMID:3019665
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R;Bonthron, D.; Orr, E.C.; Mitsock, L.M.; Gi
Nucleic Acids Res. 14, 7125-7127, 1986
A;Title: Nucleotide sequence of pre-pro-von
A;Reference number: A25298; MUID:87016349; P
A;Accession: A25298
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A;Residues: 1-120 <SH2>
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A;Residues: 1021-1030 <VE2>
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A; Residues: 1-470,'V',
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A; Residues: 2731-2813 <COL>
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;Mancuso, D.J.; Tuley, E.A.; Westfield,
iochemistry 30, 253-269, 1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cross-references: EMBL:M17588; NID:g799330; PIDN:AAA65940.1; PID:g340316
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Residues: 23-56 <SH3>
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    51-57, 1988
    von Willebrand factor gene. Structure
S02377; MUID:88111704; PMID:2828057

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human von Willebrand factor reveal five types of repeated MUID:86269894; PMID:3488076

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A;Cross-references: GDB:119125; OMIM:193400
A;Map position: 12p13.3-12p13.2
A;Map position: 1971; 74/1; 108/2; 118/1; 219/3; 292/1; 333/1; 370/2; 386/1; 431/3; 478/1; 51
5/1; 1724/1; 1771/1; 1819/1; 1874/1; 1888/3; 1948/1; 2021/3; 2086/1; 2200/1; 2266/3; 230
C;Superfamily: von Willebrand factor; von Willebrand factor type A repeat homology; von
C;Keywords: blood coagulation; cell binding; connective tissue; disulfide bond; duplicat
F;1-22/Domain: signal sequence #status predicted <SIG>
F;23-763/Product: von Willebrand antigen II #status predicted <MA1>
F;34-386/Domain: type D repeat 1 <DD1>
F;34-386/Domain: type D repeat 2 <DD2>
F;387-704/Spdinn: cell attachment (R-G-D) motif
F;764-2813/Product: von Willebrand factor #status predicted <MA2>
F;788-833,2216-2261/Region: duplication
F;826-855,2400-2515,2544-2662/Region: duplication
F;842-1130,1934-2203/Region: duplication
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A;Title: Human von Willebrand factor (vWF): isolation of A;Reference number: A44178; MUID:85244588; PMID:3874428
A;Accession: A44178
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A;Title: Molecular cloning of cDNA for human
A;Reference number: S23678; MVID:85201687; PM
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A;Cross-references: EMBL:K03028; NID:g340308; PIDN:AAA61293.1;
A;Cross-references: EMBL:K03028; NID:g340308; PIDN:AAA61293.1;
R;Verweij, C.L.; de Vries, C.J.M.; Distel, B.; van Zonneveld,
R;Verweij, C.L.; de Vries, C.J.M.; Distel, B.; van Zonneveld,
Nucleic Acids Res. 13, 4699-4717, 1985
A;Title: Construction of cDNA coding for human von Willebrand
A;Reference number: S07363; MUID:85269603; PMID:3875078
A;Accession: S07363
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A;Note: 852-Gln, 857-Asp, and 1381-Thr were also found
R;Ginsburg, D.; Handin, R.I.; Bonthron, D.T.; Donlon, T.A.; Bruns,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Molecule type: protein
A;Residues: 1606-1617 <DEN>
A;Residues: 1006-1617 <Mexical Magner, D.D.; Ginsburg, D.; Bonthron, D.; Ohlsson-Wilhelm, R;Fay, P.U.; Kawai, Y.; Wagner, D.D.; Ginsburg, D.; Bonthron, D.; Ohlsson-Wilhelm, Science 232, 995-998, 1986
Science 232, 995-998, 1986
A;Title: Propolypeptide of von Willebrand factor circulates in blood and is identic A;Reference number: A60913, MUID:86208144; PMID:3486471
A;Accession: A60913
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R;Titani, K.; Kumar, S.; Takio, K.; Ericssc
Biochemistry 25, 3171-3184, 1986
A;Title: Amino acid sequences of human von
A;Reference number: A90505; MUID:86269895;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Molecule type: protein
A;Residues: 764.773;2803-2813 <CHO>
A;Residues: 764.773;2803-2813 <CHO>
R;Dent, J.A.; Berkowitz, S.D.; Ware, J.; Kasper, C.K.; Ruggeri, Z.M.
Proc. Natl. Acad. Sci. U.S.A. 87, 6306-6310, 1990
A;Title: Identification of a cleavage site directing the immunochemical
A;Reference number: A36013; MUID:90349604; PMID:2385594
A;Accession: A36013
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R;Chopek, M.W.; Girma, J.P.; Hujikawa,
Biochemistry 25, 3146-3155, 1986
A;Title: Human von Willebrand factor: a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A, Molecule type: protein A; Residues: 764-788, 'A', 7A, 'Note: 789-Thr was also
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A; Residues: 2731-2813 <LYN>
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R;Lynch, D.C.; Zimmerman, T.S.; Collins, C.J.; Brown, M.; Morin, M.J.; L:
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A; Residues: 2731-2813 < VE3>
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A;Residues: 576-590 <FAY>
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.; Distel, B.; van Zonneveld, A.J.; van Kessel,
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F;1947-2295/Domain: type D repeat 4 <DD4>
F;2296-2330/Domain: type B repeat 1 <VB1>
F;2396-2330/Domain: type B repeat 2 <VB2>
F;2340-2365/Domain: type B repeat 3 <VB3>
F;2375-2399/Domain: type B repeat 3 <VB3>
F;2430-2497/Domain: type B repeat 3 <VB3>
F;2430-2497/Domain: von Willebrand factor type C repeat homology <VWC1>
F;2507-2509/Region: cell attachment (R-G-D) motif
F;2581-2647/Domain: von Willebrand factor type C repeat homology <VWC2>
F;857,1231.515,1574,2223,2290,2357,2400,2346,2885,2790/Binding site: carbohydrate
F;1147/Binding site: carbohydrate (Asn) (covalent) #status atypical
F;1248,1255,1256,1468,1477,1487,1679,2298/Binding site: carbohydrate (Thr) (covalent)
F;1263,1486/Binding site: carbohydrate (Ser) (covalent) #status experimental
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A,Molecule type: protein
A,Molecule type: protein
A,Residues: 1-90 <TAZ>
A,Experimental source: Pituitary extracts
A,Experimental source: Pituitary extracts
A,Note: Structurally related to mammalian Prostate Secretory Protein
C,Keywords: amidated carboxyl end
C,Keywords: amidated carboxyl end (Val) #status predicted
F,20-16,34-70,37-46,39-47,61-84/Disulfide bonds: #status experimental
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Beta-microseminoprotein - Ostrich (Struthio camelus)
C;Species: Ostrich (Struthio camelus)
C;Date: 31-Dec-2001 #sequence_revision 31-Dec-2001 #C;Accession: A59385
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F;1275-1443/Domain: von Willebrand
F;1496-1654/Domain: von Willebrand
F;1689-1854/Domain: von Willebrand
                                                                                                                                                                                                       C;Accession: B59431
R;Buribelo, P.D; Miyamoto, S.; Utani, A.; Brill, S.; Yama J. Biol. Chem. 270, 30919-30926, 1995 
A;Title: p190-B, a new member of the Rho GAP family, and A;Reference number: B59431; MUID:96125066; PMID:8537347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              submitted to the Protein Sequence
A;Description: Characterization of
A;Reference number: A59385
                                                                                       A; Molecule type: DNA
A; Residues: 1-1499 < BUR>
A; Cross-references: GB:NP_
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                                                                                                                                                                                                                                                                                                                                                   Rho GTPase activating protein 5 (p190-B) C;Species: Homo sapiens (man)
                                                                                                                                                             A;Accession: B59431
A;Status: preliminary
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                             ;Species: Homo sapiens (man);Date: 03-Jun-2002 #sequence_revision
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Best Local &
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12; Conserv
L Similarity
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nilarity 37.5%;
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                      24.1%;
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Pred. No.
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Pred. No. 0.
                      Score 64.5;
Pred. No. 1
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t homology <VWA2>
t homology <VWA3>
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N,Alternate names: sperm-specific membrane protein C;Species: Mus musculus (house mouse) C;Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 C;Accession: T42215
                                        R;Gao,
J. Bio
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               hypothetical protein F40F4.6 - Caenorhabditis elegans C;Species: Caenorhabditis elegans C;Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #t.C;Accession: T16305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Biochim. Biophys. Acta 1443, 203-210, 1998
A;Title: Cloning, genomic organization and chromosomal
A;Reference number: Z22244; MUID:99057598; PMID:9838117
A;Accession: T42724
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C;Genetics:
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;Gao, Z.; Garbers, D.L.
Biol. Chem. 273, 3415-3421, 1998
;Title: Species diversity in the structure of zonadhesin,
;Title: of zonadhesin, zonadhesin, ;Reference number: Z22080; MUID:98123114; PMID:9452463
                                                                                                                                                                                                                                                                                                                                                                  Gene: CESP:F40F4.6
•Tntrons: 57/3; 95/1;
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12; Conservative
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Pred. No. 34;
3; Mismatches
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Pred. No. 1
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 Query Match
Best Local S
Matches 15
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A;Molecule type: mRNA
A;Residues: 1-5376 <GAO>
A;Cross-references: EMBL:
C;Genetics: C;Genetics: A;Gene: Zan
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T18649
                                                                                                                                                                                 A; Gene: CESP: B0024.14
                                                                                                                                                                                                                                                                                                                            A;Status: preliminary; translated from A;Molecule type: DNA
                                                                                                                                                                                                                                                                                                                                                                                    A; Reference number: A; Accession: T18649
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           R; McMurray,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          hypothetical protein B0024.14 - Caenorhabditis elegans C;Species: Caenorhabditis elegans C;Species: Caenorhabditis elegans C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 15-Oct-1999 C;Accession: T18649
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A;Cross-references: GB:UI1052; NID:g531384;
C;Superfamily: peroxidassin; myeloperoxidase
E;19-44/Domain: proteoglycan amino-terminal
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A;Molecule type: mRNA
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A/Title: Peroxidasin: a novel enzyme-matrix protein of A/Title: A/
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C;Species: Drosophila sp.
C;Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 24-Oct-2000
C;Accession: S46224
                                                                                                                                                  A; Map position:
                                                                                                                                                                                                                                                                           A; Cross-references:
                                                                                                                                                                                                                                                                                                    A; Residues: 1-884 < WIL>
                                                                                                                                                                                                                                                                                                                                                                                                                                               submitted to the EMBL Data Library,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                F;661-1350/Domain: myeloperoxidase homology
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A;Accession: S46224
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 14
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y Match 22.6%;
Local Similarity 31.9%;
nes 15; Conservative
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llarity 38.5%;
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Score 60.5; D:
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9; Mismatches
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16;

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Search completed: March 11, 2004, 17:56:02 Job time : 14.7016 secs

Scoring table: Sequence: Perfect score:

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P59509
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Q911740
P11276
P04937
Q92832
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P19137
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homo sapien

mus musculu bombyx mori rattus norv mus musculu

porce

mus musculu
mus musculu
xenopus lae
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rattus norv

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Minimum DB seq length: 0
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     Query
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1 SCYFIPNEGVPGDSTI
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MINNE_STRCA
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RHG5 MOUSE
JAC1 HUWAN
VWF CANFA
ZAN MOUSE
CHRD BRARE
VA16 VACCV
VA16 VACCV
VA16 VACCC
PROD_MOUSE
BAR3 CHITE
BPOZ_HUMAN
MUSI_SEMUMAN
TSP2_HUMAN
TSP2_HUMAN
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                  homo sapien
xenopus lae
homo sapien
mus musculu
                                                                                                                     brachydanio
vaccinia vi
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papio anubi
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chironomus
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MESSIUTI 1

MESSE HUMANN

AC DESIGN 90,03125,080CCS9,

AC DALLS, 988 [R.1.0], Created produce by the provided seminal plasma provided by the human prostate.";

RA PARASIS G. DEG JY. Tremblay R. Lazure C., Seidah N.G.,

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HMCT_BOMMO
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NEL2_MOUSE
CLC2_CAVPO
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JAG2_MOUSE
FINC_XENLA
FINC_MOUSE
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Result

Score

57 58 57 58 57 58 57 57

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RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Hopkins R.M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Stapleton M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Brownstein M.J., Widdin T.B., Toshiyuki S., Carninci P., Wallahy S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Raha S.S., Morley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Hodriguez A.C., Grimwood J., Schmutz J., Nyers R.M.,
RA Butterfield Y.S.M., Kzzywinski M.I., Skalska U., Smailus D.E.,
Butterfield Y.S.M., Kzzywinski M.I., Skalska U., Smailus D.E.,
"Generation and initial analysis of more than 15,000 full-length
human and mouse cDNA sequences.",
Toc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
Ohkubo I., Tada T., Oo
"Human seminal plasma
characterization, and
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TISSUE=Prostate;
MEDLINE=96032566; PubMed=7566962;
MEDLINE=96032566; PubMed=7566962;
MEDLINE=96032566; PubMed=7566962;
                                                                                                                                                                         MEDLINE=>, Kamada M., Koide S.S., Introduction of immunoglobulin binding fac "Structural identity of immunoglobulin binding fac secretory protein of human seminal plasma."; secretory protein of human seminal plasma."; picchem. Biophys. Res. Commun. 180:356-359(1991).
                                                                                                                                                                                                                                                                                                                                                                                                                     "Seidah N.G., Arbatti N.J., Rochemont J., Sheth A.R., Chretien M.; "Complete amino acid sequence of human seminal plasma beta-inhibin. Prediction of post Gln-Arg cleavage as a maturation site."; FEBS Lett. 175:349-355(1984).
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Baijal-Gupta M., Clarke M.W.;
Prostate specific protein (PSP94) expression in a human cell line (KLE).";
                                                                                              MEDLINE=95401076;
                                                                                                                                                         SEQUENCE
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Tsuda R., Hara M.,
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                                                                                                                                                                                                                                                                                                                                   MEDLINE=92028964;
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world, but not old world, monkeys carry
-microseminoprotein.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 amino acid sequence of human beta-microseminoprotein.", im. Biophys. Acta 829:288-294(1985).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                J. Biochem.
                                                                                                                                                      OF 21-41,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Biophys.
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   T., Ochiai Y., Ueyama H., Eimoto T., Sasaki M.; plasma beta-microseminoprotein: its purification, and immunohistochemical localization.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                264:407-414(1999)
                                                                                                                                                                                                                                                                                                    PubMed=1930232;
a M., Koide S.S.
                                                                                           PubMed=7671139;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PubMed=6434350;
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Feingold E.A., Grouse L.
                                                                                                                                                      AND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PubMed=3995056;
bka Y., Schmid K.,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Offner G.D., Troxler R.F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  several genes encoding
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         Genew; 11-7145;
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EMBL; M34374; AAJ
EMBL; M34375; AAJ
EMBL; M15885; AAJ
EMBL; X57928; CAJ
EMBL; X57929; CAJ
EMBL; X57931; CAJ
EMBL; X57931; CAJ
EMBL; X57931; CAJ
EMBL; X57931; AAJ
EMBL; W18976; AAJ
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entities requires a license agreement (sor send an email to license@isb-sib.ch).
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Proteomics 2:112-120(2002).
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                                                                                                                                                                                                                                                                                                                                     Pfam; PF05825; PSP94;
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-!- SIMILARITY: Belongs to the beta-microseminoprotein family
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-!- ALTERNATIVE PRODUCTS:
Byent-51*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=21648993;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          IsoId=P08118-2; Sequence=VSP_003275, VSP_003276; PISSUB_SPECIFICITY: Strongly expressed in prostate, liver, kidney breast and penis. Also expressed in pancreas, esophagus, stomach, decdenum, colon, trachea, lung, salivary glands and fallopian tube. PSP94 is expressed in lung and breast, whereas PSP57 is found in kidney and bladder.

MISCELLANEOUS: SPECIFIC RECEPPORS FOR THIS PROTEIN ARE FOUND ON
                                                                                                                                                                                                                                                                                                                                                                                                                                                              A34567; A34567.
G01730; G01730.
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AAA36635.1;
CAA41002.1;
CAA41002.1;
CAA41002.1;
CAA41002.1;
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AAA83556
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AAA59871.1;
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AAB37355.1; -.
; AAH05257.1;
; CAB39325.1;
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-> MFLHLWVMTKTTAKESSRRRTASISWWRRRTQKRPVLS
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OR 69 (BY SIMILARITY).
BY SIMILARITY.
                                                                                                                                                                                                            BETA-MICROSEMINOPROTEIN.
BY SIMILARITY.
BY SIMILARITY.
OR 70 (BY SIMILARITY).
/FTId=VSP_003276.
L -> S (in dbSNP:1804776)
/FTId=VAR_011935.
                                                               Missing
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                                                               (in isoform PSP57)
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AC P25142;
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MSMB_PAPAN
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01-NOV-1997
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01-NOV-1997 (Rel. 35, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Beta-microseminoprotein precursor (Prostate s
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-!- FUNCTION: Inhibits the secretion of FSH by pituitary cells similarity).
                                                                                                                                                                                                                                       Signal
SIGNAL
                                                                                                                                                                                                                                                                                                                             This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDLINE=97316893;
Xuan J.W., Wu D.,
Chin J.L.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Metazoa; Chordata; Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TISSUE=Prostate;
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NCBI_TaxID=9555;
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Pro; IPR008735; PSP9:
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larity 100.0%;
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Guo Y., Garde S.,
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Pred. No. 8.5e-27;
Mismatches 0;
              PRT;
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 (Rel. 41, Created)
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(Rel. 41, Last annotation
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01-MAY-1992 (Rel. 22, Created)
01-MAY-1992 (Rel. 22, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Beta-microseminoprotein precursor (Prostate s
protein) (Prostate secretory protein PSP94) (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           This SWISS-PROT entry is copyright. It is produbetween the Swiss Institute of Bioinformatics the European Bioinformatics Institute. There a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      -!- SUMCELLULAR LOCATION: Secreted. Sperm surface (By self-similarity: Belongs to the beta-microseminoprotein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.

MEDLINE=91244325; PubMed=2037304;

Molet S., St Louis D., Mbikay M., Chretien M.;

"Rapid evolution of prostatic protein PSP94 suggested "Rapid evolution of prostatic protein PSP94 suggested "Rapid evolution of prostatic part human chuas ";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDLINE=91274357; PubMed=2054385;
Nolet S., Mbikay M., Chretien M.;
Prostatic secretory protein PSP94: gene o
sequence in rhesus monkey and human.";
Biochim. Biophys. Acta 1089:247-249(1991).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       entities requires a license agreement or send an email to license@isb-sib.ch
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         divergence between rhesus monkey and human cDNAs.";
Genomics 9:775-777(1991).
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NCBI_TaxID=9544;
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Mammalia; Eutheria; Primates; Catarrhini;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    MSPA.
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                                                             beta-microseminoprotein.";
Rur. J. Biochem. 264:407-414(1999)
                                                                                                                                                                                                                                                                                                                                           Saguinus oedipus (Cotton-top tamarin).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Platyrrhini; Callitrichidae; Saguinus.
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28-FEB-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 beta-microseminoprotein.";
Eur. J. Biochem. 264:407-414(1999).
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Mammalia; Eutheria;
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use by non-profit institutions as long as its content
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                           entities requires a license agreement (S or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                         MEDLINE=99421644; PubMed=10491085;
Maekinen M., Valtonen-Andre C., Lundwall A.;
"New world, but not old world, monkeys carry
                                                                                                                                                                                                                                                                                                                                    Eukaryota;
Mammalia; E
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                                                                                                                                                                                                            beta-microseminoprotein.";
Eur. J. Biochem. 264:407-414(1999)
                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
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InterPro; IPR008735; PSP94.
Pfam; PF05825; PSP94; 1.
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                                                                                                                                                                                                -!- FUNCTION: Inhibits the secretion
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SUBCELLULAR LOCATION: Secreted. Sperm surface
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2400; GF_cysknot.
CAB38105.1;
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Primates; Platyrrhini;
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Pred. No. 4.9e-17
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C:extracellular;

Pfam; PF05825;

PSP94;

InterPro; IPR008735; PSP94

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01-NOV-1997
28-FEB-2003
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                                             Signal;
SIGNAL
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Tanaka T., Itahana K., Andoh N., Takeya T., Sato E.;
"Expression of prostatic secretory protein (PSP)-like porcine corpus luteum: isolation and characterization encoding PSP94-like protein.";
Mol. Reprod. Dev. 42:149-156(1995).
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SIGNAL
                                                                                                                                                                    the European Bioinformatics Institute. The use by non-profit institutions as long modified and this statement is not removed. entitles requires a license agreement (See or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TISSUE=Seminal plasma;
MEDLINE=94161559; PubMed=8117114;
Ferniund P., Granberg L.B., Roepstorff P.;
"Amino acid sequence of beta-microseminoprotein from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-NOV-1997 (Rel. 35, Created)
01-NOV-1997 (Rel. 35, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Beta-microseminoprotein precursor (Prostate secreted protein) (Prostate secreted protein) (Prostate secreted protein)
                                                                                                                                                                                                                                                                          This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation -
                                                                                                                                                                                                                                                                                                                                                                                      -!- SUBCELLULAR LOCATION:
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Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus
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-!- FUNCTION: Inhibits the
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                                                               Pyrrolidone carboxylic acid.
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C p97580;

T 15-JUL-1998 (Rel. 36, Created)

DT 15-JUL-1998 (Rel. 36, Last sequence update)

DT 28-FEB-2003 (Rel. 41, Last annotation update)

DE Beta-microseminoprotein precursor (prostate secreted semontation) (Prostate secretory protein PSP94) (PSP-94).

Trotein) (Prostate secretory protein PSP94) (PSP-94).
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between the Swiss Institute of Bioinformatics
the European Bioinformatics Institute. There a
                                                                                                                                                                                                                                                                                                     similarity).
-!- SUBCELLULAR LOCATION: Secreted. Sperm surface. PRESE
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                                                                                                                                                                                                                      use by non-profit institutions as long modified and this statement is not removed.
                                                                                                                                            Pfam;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
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                                                                                                                                                                                                                                                                                                                                                                                                    MEDLINE=96434855; PubMed=8837741;
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                                                                                                                                           PSP94;
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BETA-MICROSEMINOPROTEIN.

BY SIMILARITY.

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OR 69 (BY SIMILARITY).

OR 68 (BY SIMILARITY).

EY SIMILARITY.
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OR 67 (BY SIMILARITY).
OR 66 (BY SIMILARITY)
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PYRROLIDONE CARBOXYLIC ACID.
W; ABF33A067A23765E CRC64;
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Score 90.5; D
Pred. No. 0.00
8; Mismatches
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Pred. No. 3.3
                                          060246793AF24B31 CRC64;
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                                                                                                                                                                                                                                                      is produced through a cormatics and the EMBL
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           DB 1;
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VWF PIG

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Best Local S
Matches 17
                                                                                                                              VWF_PIG STANDARD; PRT; 2482 AA (208833)
16-OCT-2001 (Rel. 40, Created)
16-OCT-2001 (Rel. 40, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation updat von Willebrand factor precursor (vWF) (Fragram)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Signal.
SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               use by non-profit institutions as long modified and this statement is not removed. entitles requires a license agreement (See or send an email to license@isb-sib.ch).
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"Rapid evolution of PSP94 cDNA sequence in rodents.";
Submitted (MAR-1997) to the EMBL/GenBank/DDBJ databases.
-!- FUNCTION: Inhibits the secretion of FSH by pituitary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      15-UUL-1998 (Rel. 36, Created)
15-UUL-1998 (Rel. 36, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Beta-microseminoprotein precursor (Prostate secreted seminal plasma
protein) (Prostate secretory protein PSP94) (PSP-94).
               Eukaryota; Metazoa;
Mammalia; Eutheria;
NCBI_TaxID=9823;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE
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Sus scrofa (Pig).
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the European Bioinformatics Institute.
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Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SUBCELLULAR LOCATION: Secreted. Sperm surface (By similarity). SIMILARITY: Belongs to the beta-microseminoprotein family.
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                                                                                                                                                                                                                                                                                                                                                                                                                          CYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 45
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12844 MW;
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                                                Cetartiodactyla;
                                                  Chordata; Craniata; Vertebrata; Euteleostomi; Cetartiodactyla; Suina; Suidae; Sus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         32.6%;
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BETA-MICROSEMINOPROTEIN.
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OR 69 (BY SIMILARITY).
OR 68 (BY SIMILARITY).
BY SIMILARITY.
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Pred. No. 0
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(Fragment).
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SEQUENCE FROM N.A.
Seaman W.T., Read M.S
Submitted (MAR-1998) ([2]
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         entities requires a license agreement (S or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -!- PTM: ALL CYSTEINE RESIDUES ARE INVOLVED IN INTRACHAIN OR INTERCHAIN DISULFIDE BONDS (BY SIMILARITY).
-!- SIMILARITY: Contains 3 WHFA domains.
-!- SIMILARITY: Contains 3 WHFC domains to similarity: Contains 1 C-terminal cystine knot-like (CTCK)
-!- SIMILARITY: SOME, TO SILKWORM HEMOCYTIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             "Primary structure of the factor VIII binding and rabbit von Willebrand factor.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       between the Swiss Institute of Bioinf
the European Bioinformatics Institute
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Lavergne J.M., Piao Y. Bahnak B.R., Meyer D.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDLINE=93356762; PubMed=8352759; Lavergne J.M., Piao Y.C., Ferreir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE OF 397-553 FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      noncovalent complex with coagulation factor VIII at the site vascular injury (By similarity).
SUBUNIT: Multimeric (By similarity).
PTM: ALL CYSTEINE RESIDING and INTERPORTY.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 S., Bellinger D.A., Nichols T.C.;
to the EMBL/GenBank/DDBJ databases.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ced through a collaboration and the EMBL outstation
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PROSITE; PS01185; CTCK\_1; 1.
PROSITE; PS01225; CTCK\_2; 1.
PROSITE; PS50234; VWFA; 3.
PROSITE; PS01208; VWFC\_1; 3.
PROSITE; PS01184; VWFC\_2; 3.
Blood coagulation; Platelet; G SMART; SMART; SM0004 SMART; SM0032 EMBL; PRINTS; Pfam; PF00094; InterPro; IPR001007; VWF\_C.
InterPro; IPR001846; VWF\_D.
Pfam; PF00007; Cys\_knot; 1. HSSP; InterPro; IPR006208; Cys\_knot. InterPro; IPR006207; Cys\_knot\_C. InterPro; IPR009611; PMP\_inhibitor. InterPro; IPR002919; TIL\_Cysrich. Plasma; [nterPro; ; AF052036; AAC06229.1; -.; S64541; AAB27829.2; -. PN0563; PN0563. P04275; PF00093; SM0021 Hemostasis; Repeat; PR00453; VWFADOMAIN IPR002035; VWF\_A. 1; CT; 1 7; VWA; 4; VWC; vwd; V₩D; ; Glycoprotein; Extracellular matrix; Cell adhesion.

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437 2482 215 461 507 527 527 527 1127 1127 1334 1540 1771 1771 1930

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BY SIMILARITY AMINO-TERMINAL VWFD 2

VON WILLEBRAND FACTOR

VWFD VWFA VWFA VWFD E2. VWFC

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INSUE SPECIFICITY: In testis, primarily in haploid spermatids.

-! TISSUE SPECIFICITY: In testis, primarily in haploid spermatids.
-! DOMAIN: The MAM domains probably mediate sperm adhesion to the zona pellucida.
-! DOWAIN: During sperm migration through the reproductive tracts, the mucin-like domain might inhibit inappropriate trapping of spermatozoa or promoting adhesion to the oviductal isthmus.
-! DOWAIN: The VWFD domain 2 may mediate covalent oligomerization (by similarity to human intestinal mucin MUC2).
-! SIMILARITY: Contains 3 WAM domains.
-! SIMILARITY: Contains 1 EGF-like domain.
-! CAUTION: Ref.2 sequence differs from that shown due to transposition of a number of exons.
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"Multiple int:
Submitted (JA:
[2]
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "Chromosome localization of the mouse zonadhesin gene (ZAN)."; Genomics 4::119-122(1997).
-!- FUNCTION: Binds in a species-speci
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE OF 1810-2812 FROM N.A. (ISOFORM 1).

MEDLINE=2118439; PubMed=11239002;

Wilson M.D., Riemer C., Martindale D.W., Schnu
Cheung T.L., Hardy D.M., Schwartz S., Scherer
Miller W., Koop B.F.;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE OF 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Comparative analysis of the gene-dense ACHE/TFR2 region on human chromosome 7q22 with the orthologous region on mouse chromosome 5."; Nucleic Acids Res. 29:1352-1365(2001).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        analysis of 650 kb of genomic reveals 17 genes.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gao Z., Harumi T
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SUBUNIT: Probably forms covalent oligomers.
SUBCELIULAR LOCATION: Type I membrane protein,
apical region of the sperm head (By similarity)
ALTERNATIVE PRODUCTS:
Event=Alternative splicing; Named isoforms=7;
                                                                                                                                                                                                                                                                                                    Name=7
                                                                                                                                                                                                                                                                                                                               Name=6
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                                                                                                                                                                                                                                                                                                                                                                                                                       IsoId=Q9Y493-2;
                                                                                                                                                                                                                                                                                                                                                                                                                                               IsoId=Q9Y493-1;
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                                                                                                                                                                                                                                                                                                                                                                                            Id=Q9Y493-3;
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12 AA. ; Q96L88; ; Q9BZ87;

Q96L89; Q96L90; Q9BZ88;

SEQUENCE FROM N.A. TISSUE=Testis;

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Eukaryota; Metazoa; Mammalia; Eutheria; Homo sapiens (Human)

Chordata; Primates;

Craniata; Vertebrata; Euteleostomi; Catarrhini; Hominidae; Homo.

ZAN\_HUMAN STANDARD; PRT; 2812 AA 09Y493; 000218; 096185; Q96186; Q96187; Q96 Q9EXN9; Q9BZ83; Q9BZ84; Q9BZ85; Q9BZ86; Q9B 16-OCT-2001 (Rel. 40, Created) 28-FEB-2003 (Rel. 41, Last sequence update) 15-MAR-2004 (Rel. 43, Last annotation update Conadhesin precurear

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SCGDHPSEGCFCPPHQVMLGSSCVPEEACTQCVDDDGIRHQFLETWVPDHQPCQICTC 1952

Matches Query Match Best Local :

l Similarity 17; Conserv

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27.2%; 272394

Score 73; DB Pred. No. 0.62 8; Mismatches

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GO:0007339; P:binding of sperm to zona pellucida;
GO:0008037; P:cell recognition; NAS.
GO:0016337; P:cell-cell adhesion; NAS.
                                                                                                                                                                                                                                               n; PF00008; EGF; 1.
n; PF00629; MAM; 3.
n; PF01826; TIL; 4.
n; PF02345; TILa; 5.
n; PF000094; vwd; 4.
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AF312032; AAK21011.1;
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PS01186; EGF 2;
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181; EGF; 4.
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AAK01436.1;
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                                                                                                                                            SEQUENCE FROM N.A., AND PARTIAL SEQUENCE.

MEDLINE=91195330; PubMed=2014248;

Mann B.J., Torian B.E., Vedvick T.S., Petri W.A.

"Sequence of a cysteine-rich galactose-specific histolytica.";
                                                                                                                                                                                                                                                                             Entamoeba histolytica.
Eukaryota; Entamoebidae;
NCBI_TaxID=5759;
                                                                                                                                                                                                                                                                                                                                                   01-JUL-1993 (Rel. 26, Created)
01-JUL-1993 (Rel. 26, Last sequence update)
15-WAR-2004 (Rel. 43, Last annotation update)
Galactose-inhibitable lectin 170 kDa subunit.
                                                               Proc. Natl. Acad. Sci. U.S.A. 88:3248-3251
-!- FUNCTION: Lectin that binds galactose.
-!- SUBNUT: Heterodimer of a heavy (170 k
(35 kDa) linked by disulfide bonds.
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                                       -!- PTM: N-glycosylated.
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/FITIGHVES 001425.
HGVSSRYHISELYDTLPSILCQPGRPRGLRGPLRGRLRQH
HGVSSRYHISELYDTLPSILCQPGRPRGLRGPLRGRLRQH
-> VALLCQEAGAALAGWRDRTLCAMECPAGTITYQSCMTPC
-> VALLCQEAGAALAGWRDRTLCAMECPAGTITYON
(in isoform 7).
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HGVSSRYHISELYDTLPSILCQPGRPRGLRGPLRGRLRQHP
RLCLQWHPERPLADCGCTSNGIYYQLGSSFLTEDCSQRCTC
ASSRILLCRPP -> YAILCQEAGAALAGWEDRTLCAMECP
AGTIYQSCMTPCPASCANLADPGDCEGPCVEGCASIPGYAY
SGTQSLPWLTVAAPAMASTTSWAAAF (in isoform
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SEQUENCE FROM N.A., AND SEQUENCE OF 823-830; 859-872; 883-890; 920-925; 960-967; 1235-1244; 1349-1354; 1518-1532; 1624-1656; 1658-1667; 1777-1795 AND 1914-1921.
STRAIN-Meishan, TISSUE-Testis;
                                                                                                                                                                                                                                 MEDLINE=96064658; PubMed=7592795; Hardy D.M., Garbers D.L.;
                                                                                                                                                                                                                                                                                                                                                    Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EMBL; M59850; -; NOT A
Lectin; Transmembrane;
apical region of the sperm head (By similarity).

TISSUE SPECIFICITY: In testis, primarily in haploid spermatids. Not in lung, liver, heart, spleen, brain, kidney, epididymis. DOMAIN: The MAM domains probably mediate sperm adhesion to the zona pellucida.

DOMAIN: During sperm migration the control of the 
                                                                                                                                   Biol. Chem. 270:25025
- FUNCTION: Binds in a
of the egg. May be
                                                                                                signaling.
SUBUNIT: Probably form
SUBCELLULAR LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        l Similarity 31.
13; Conservative
                                                                                                                                                                                                     extracellular matrix
                                                                                                                                                                                                   membrane protein that binds in a sextracellular matrix is homologous
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                                                                                                                                        270:26025-26028(1995).
Binds in a species-specific
May be involved in gamete
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STANDARD;
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erPro; IPR006209; EGF like.
erPro; IPR000998; MAM_domain.
erPro; IPR0003919; TILE_Cysrich.
erPro; IPR003328; TILE_Cysrich.
erPro; IPR001007; VWF_C.
erPro; IPR001846; VWF_D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SIMILARITY: Contains 2 MAM domains.
SIMILARITY: Contains 5 VWFD domains.
SIMILARITY: Contains 1 EGF-like domain.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      spermatozoa or promoting adhesion to the oviductal isthmus. COMAIN: The VWFD domains 2 and 3 may mediate covalent oligomerization (By similarity to human intestinal mucin MUC2). FTM: THE MAM DOMAINS AND THE MUCIN-LIKE DOMAINS ARE MISSING FROM THE ZONADHESIN THAT BINDS TO THE EGG EXTRACELLULAR MATRIX.
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VWFD 1 (PARTIAL).
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01-NOV-1991 (Rel. 20, Cr

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170 kDa surface lectin F

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Tannich E.
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                                                                                                                           This SWISS-PROT entry is copyright. It is produced through a continuent the Swiss Institute of Bioinformatics and the EMBL the European Bioinformatics Institute. There are no restrict use by non-profit institutions as long as its content is modified and this statement is not removed. Usage by and for entities requires a license agreement (See http://www.isb-sib.or send an email to license@isb-sib.ch).
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MEDLINE=91156704; PubMed=2000392;
Tannich E., Ebert F., Horstmann R.D.;
"Primary structure of the 170-kDa surface lectin of
                                                                                                                                                                                                                                                                                                                                                                    "Subunit structure of the galactose and N-
inhibitable adherence lectin of Entamoeba
J. Biol. Chem. 264:3007-3012(1989)
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Proc. Natl. Acad. Sci. U.S.A. 88:1849-1853(1991).
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NCBI_TaxID=5759;
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.23408; PubMed=2536731;
Jr., Chapman M.D., Snc
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MEDLINE=90062044; PubMed=2584182;

Mancuso D.J., Tuley E.A., Westfield L.A., Worrall N.K.,

Shelton-Inloes B.B., Sorace J.M., Alevy Y.G., Sadler J.E.;

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J. Biol. Chem. 264:19514-19527(1989).
                                             MEDIIIE=87213253, PubMed=3495266; Shelton-Inloes B.B., Broze G.J. Jr., Miletich J.P., Sadil "Evolution of human von Willebrand factor: cDNA sequence polymorphisms, repeated domains, and relationship to von antigen II.";
                                                                                                                                  SEQUENCE OF 1-120 FROM N.A., AND SEQUENCE TISSUE=Umbilical vein endothelial cells;
                                                                                                                                                                                      "Nucleotide se
Nucleic Acids
                                                                                                                                                                                                                   Bonthron D., Orr
Orkin S.H.;
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Mammalia; I
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                              Biochem. Biophys. Res. Commun. 144:657-665 (1987)
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ind factor precursor (vWF).
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s.C., Mitsock L.M.,
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Primates;
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Ling E.H., Livingston D.M.;

"Molecular cloning of cDNA for human valuable trication by a new method"

Cell 41:49-56(1985)
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Latt S.A., Orkir
"Human von Wille
(cDNA) clones ar
REVISIONS.
Lynch D.C.;
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MEDLINE=91105089;
Mancuso D.J., Tule
Le Beau M.M., Sora
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              "The human von Willebrand factor "Riochem. 171:51-57 (1988)
                                                                                                                                                                                                                                                                                   Science
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Ginsburg D., Handin R.I.,
Latt S.A., Orkin S.H.;
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MEDLINE=88111704;
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Titani K., Kumar S., Takio K., Ericsson L.H., Wade R.D Titani K.A., Chopek M.W., Sadler J.E., Fujikawa K.;
"Amino acid sequence of human von Willebrand factor.";
Biochemistry 25:3171-3184(1986).
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K., Davie E.W.;
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Willebrand factor (vWF) cDNA encodes
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MEDLLNE=97460108; PubMed=9312128;
Bienkowska J. Cruz M., Atiemo A., Hai
"The von Willebrand factor A3 domain of the dependent adhesion site motif:";
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MEDLINE=97472999; PubMed=9331419;
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Samor B., Michalski J.C., Debray H.,
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Query Match
Best Local Similarity 27.6%; Pred. No. 5.4;
Matches 16; Conservative 8; Mismatches 18; Indels 16; Gaps 2;

Matches 16; Conservative 8; Mismatches 18; Indels 16; Gaps 2;

Matches 16; Conservative 8; Mismatches 18; Indels 16; Gaps 2;

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Copyright (c) 1993 - 2004 Compugen Ltd.
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A;Residues: 1-114 <MBI>
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A;Residues: 1-114 <GRE>
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### ALIGNMENTS

e adenosy protein A; Cross-references: GB:MI5885; NID:g338414; PIDN:AAA36635.1; PID:g338415
A; Cross-references: GB:MI5885; NID:g338414; PIDN:AAA36635.1; PID:g338415
R; Akiyama, K.; Yoshioka, Y.; Schmid, K.; Offner, G.D.; Troxler, R.F.; Tsuda, R.; Hara, P.
Blochim. Biophys. Acta 829, 288-294, 1985
A; Title: The amino acid sequence of human beta-microseminoprotein.
A; Reference number: A29777; MUID:85199974; PMID:3995056
A; Recession: A29777
A; Molecule type: pyrotein
A; Residues: 21-58, 'PT',61-113 <AKI>
R; Seidah, N.G.; Arbatti, N.J.; Rochemont, J.; Sheth, A.R.; Chretien, M.
RESS Lett. 175, 349-355, 1984
A; Title: Complete amino acid sequence of human seminal plasma beta-inhibin. Prediction 4, Reference number: A30984; MUID:85004133; PMID:6434350
A; Accession: A3984 C;Species: Homo sapiens (man)
C;Date: 13-Uul-1990 #sequence revision 13-Uul-1990 #text change 20-Aug-1999
C;Accession: A34567; A26451; A29777; A30984; A60673; S16738; I52682
R;Green, C.B.; Liu, W.Y.; Kwok, S.C.M.
Biochem. Biophys. Res. Commun. 167, 1184-1190, 1990
A;Title: Cloning and nucleotide sequence analysis of the human beta-microser A;Reference number: A34567; MUID:90211299; PMID:2322265
A;Accession: A34567 A,Experimental source: gastric juice R;Nolet, S.; Mbikay, M.; Chretten, M. Biochim. Biophys. Acta 1089, 247-249, 1991
A;Title: Prostatic secretory protein PSP(94): gene organization A;Reference number: S16237; MUID:91274357; PMID:2054385
A;Accession: S16238
A;Molecule type: DNA A;Molecule type: protein
A;Residues: 21-112,'G','114 <SEI>
R;Residues: 21-112,'G','114 <SEI>
R;Weiber, H.; Andersson, C.; Murne, A.; Rannevik, G.; Lindstroem, C.; Lilja, H.;
Am. J. Pathol. 137, 593-604, 1990
A;Title: Beta microseminoprotein is not a prostate-specific protein.
A;Reference number: A60673; MUID:90379237; PMID:2205099
A;Accession: A60673
A;Molecule type: protein
A;Residues: 21,'X',23-34 <WEI>
A;Residues: 21,'X',23-34 <WEI> A;Title: Molecular cloning and sequence of the cDNA for a 94-amino-acid seminal plasma pa;Reference number: A26451; MUID:87161231; PMID:3829888
A;Accession: A26451 A;Cross-references: GB:M34376; NID:g514370; PIDN:AAA59871.1; PID:g514372 R;Mbikay, M.; Nolet, S.; Fournier, S.; Benjannet, S.; Chapdelaine, P.; Paradis, G.; Dub: DNA 6, 23-29, 1987 beta-microseminoprotein precursor N;Alternate names: beta-inhibin; p A;Status: not compared with conceptual translation r - human prostatic secretory protein; PSP-94; seminal plasma human beta-microseminoprotein and promoter sequence Fernlu 'n Ľ

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RESULT
B96744
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A;Map position: 10q11.2-10q11.2
A;Introns: 1/3; 37/1; 72/2
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C;Keywords:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        nine-heme cytochrome c - Desulfovibrio desulfuricans
C;Species: Desulfovibrio desulfuricans
C;Date: 03-Dec_1999 #sequence_revision 03-Dec-1999 #
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A;Title: Decreased expression of prostatic secretory protein PSP94 in A;Reference number: I52682; WUID:94115955; PMID:7506990
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A;Title: Sequencing the gene encoding Desulfovibrio desulfuricans
A;Reference number: JC7094; MUID:99400423; PMID:10471375
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R;Saraiva, L.M.; da
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;21-114/Product: seminal plasma protei
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62, 629-634, 1999
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Biochem. Biophys. Res. Commun. 194, 17-22, 1993
A; Title: Purification and characterization of a sco
A; Reference number: JN0613; MUID:93326112; PMID:833
A; Mccession: JN0613
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                                                                           A; Molecule type: protein A; Residues: 1-38 < COC>
                                                                                                                                                                                                                                defensin 4K - scorpion (Leiurus quinquestriatus)
N;Alternate names: antibacterial 4K peptide
C;Species: Leiurus quinquestriatus hebraeus
C;Date: 03-Feb-1994 #sequence_revision 03-Feb-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Introns: 46/1; 96/1; 124/3; 165/1; 223/3; 282/3; 340/3; 381/1; 485/3; 516/2; 549/1; 6 C;Superfamily: yeast 1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase; 1-phosposphodiesterase domain Y homology
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A;Residues: 1-895 <WOH>
A;Residues: 1-895 <WOH>
A;Cross-references: EMBL.AF025462; PIDN:AAB71005.1; GSPDB:GN00021; CESP:K10F12.3
A;Experimental source: strain Bristol N2; clone K10F12
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A; Gene: F28P5.4
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A; Residues: 1-601 <STO>
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PMID:8333834
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No.

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R;Bulet, P.; Cociancich, S.; keuland, M.; Sauver, L., ---
Eur. J. Biochem. 209, 977-984, 1992
A;Title: A novel insect defensin mediates the inducible
A;Reference number: 827242; MUID:93049356; PMID:1425705
                                                                                                                                                 N;Alternate names: insulin enhancer-binding protein isl-2a; islet-2a protein C;Species: Oncorhynchus tschawytscha (chinook salmon) C;Date: 14-Jul-1995 #sequence_revision 21-Jul-1995 #text_change 15-Oct-1999
                                                        R;Gong, Z.; Hew, C.L.
Biochim. Biophys. Acta 1260, 349-354, 1995
A;Title: Several splicing variants of isl-1 like genes in the chinook salmon A;Reference number: S52089; MUID:95178560; PMID:7873614
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    submitted to the EMBL Data A; Reference number: S53116
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; Molecule type: mRNA
A; Residues: 1-83 < CER>
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A;Accession: S53116
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;Residues: 1-38 <BUL>
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Cross-references: EMBL:X64882
                               Molecule type: mRNA
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A;Variety: ATCC 29342
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 21-Jul-2000
C;Accession: $73864
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C;Superfamily: transcription
C;Keywords: alternative splic
F;3-56/Domain: LIM metal-bind
                                                                A;Status: preliminary; nucleic
A;Molecule type: DNA
A;Residues: 1-119 <HIM>
                                                                                                                 A;Title: Complete sequence analysis A;Reference number: S73327; MUID:977 A;Accession: S73864
                                                                                                                                                                   C;Accession: S73864
R;Himmelreich, R.; Hilbert, H.; Plagens, H.; Pirkl,
Nucleic Acids Res. 24, 4420-4449, 1996
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A;Residues: 1-114 <NOL>
                               A; Note: the nucleotide sequence was
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A; Residues: 1-114 < NO2>
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                                 EMBL:AE000052; GB:U00089; NID:g1674223; ide sequence was submitted to the EMBL Da
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analysis of the MUID:97105885;

the

genome of the PMID:8948633

bacterium Mycoplasma

pneumonia

E.; Li,

B.C.; Herrmann,

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(strain ATCC 29342)

acid

sequence not

shown;

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PIDN:AAB96186.1; ata Library, Noven

PID:g16742 mber 1996

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R;Nolet, S.; Mbikay, M.; Chretien, M.
Biochin. Biophys. Acta 1089, 247-249, 1991
A;Title: Prostatic secretory protein PSP(94):
A;Reference number: S16237; MUID:91274357; PMI
A;Accession: S16237
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    seminal plasma protein PSP-94 precursor - rhesus macaque
N;Alternate names: protein c secretory protein PSP94
C;Species: Macaca mulatta (rhesus macaque)
C;Date: 02-Jun-1995 #sequence_revision 02-Jun-1995 #text_change
                                                                                                                                                                                                      A; Reference number: A54663; A; Accession: A54663
                                                                                                                                                                                                                                                                 R; Nolet, S.; St-Louis, D. Genomics 9, 775-777, 1991
                                                                                                                                                  A; Cross-references: GB:M92161;
                                                                                                                                                                                                                            A;Title: Rapid evolution of prostatic protein PSP-94 suggested by sequence divergence barkeference number: A54663; MUID:91244325; PMID:2037304
                                                                                                                                                                                                                                                                               A;Cross-references: EMBL:X57932; NID:g38094; PIDN:CAA41003.1; A;Note: the authors translated the codon ACT for residue 54 as R;Nolet, S.; St-Louis, D.; Mbikay, M.; Chretlen, M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C; Accession: S16237; A54663
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Similarity
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                   Score 5; Pred. N
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C; Superfamily: holo-ACP

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RiTheologis, A.; Ecker, J.R.; Palm, C.J.; Federspiel, N.A.; Kaul, S.; White, O. Chin, C.W.; Chung, M.K.; Conn, L.; Conway, A.B.; Conway, A.R.; Creasy, T.H.; D. ansen, N.F.; Hughes, B.; Huizar, L.
Nature 408, 816-820, 2000
A.; Authors: Hunter, J.L.; Jenkins, J.; Johnson-Hopson, C.; Khan, S.; Khaykin, E. C.A.; Li, J.H.; Lin, X.; Liu, S.X.; Liu, Z.A.; Luros, J.S.; Maiti, R.; C.A.; Li, J.H.; Lin, X.; Liu, S.X.; Liu, Z.A.; Luros, J.S.; Maiti, R.; Rizzo, M.; Rooney, T.; Rowley, D.; Sakano, H.
A.; Authors: Salzberg, S.L.; Schwartz, J.R.; Shinn, P.; Southwick, A.M.; Sun, H.; ker, M.; Wu, D.; Yu, G.; Fraser, C.M.; Venter, J.C.; Davis, R.W.
A.; Regenence and analysis of chromosome 1 of the plant Arabidopsis.
A.; Reference number: A86141; MUID:21016719; PMID:11130712
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    R;Blattner, F.R.; Plunkett III, G.; Bloch, C.A.; Perna, N.T.; Burland, V.; Riley, A.; Rose, D.J.; Mau, B.; Shao, Y.
Science 277, 1453-1462, 1997
A;Title: The complete genome sequence of Escherichia coli K-12.
A;Reference number: A64720; MUID:97426617; PMID:9278503
A;Accession: G65019
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A;Residues: 1-167 <STO>
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hypothetical protein - Synechocystis sp. (strain PCC 6803)
(;Species: Synechocystis sp.
A;Variety: PCC 6803
C;Date: 25-Apr-1997 #sequence_revision 25-Apr-1997 #text_change 23-Dec-2002
C;Date: 25-Apr-1997 #sequence_revision 25-Apr-1997 #text_change 23-Dec-2002
C;Accession: S76790
R;Kaneko, T.; Sato, S.; Kotani, H.; Tanaka, A.; Asamizu, E.; Nakamura, Y.; PR;Kaneko, T.; Watanabe, A.; Yamadi
O, X.; Okumura, S.; Shimpo, S.; Takeuchi, C.; Wada, T.; Watanabe, A.; Yamadi
DNA Res. 3, 109-136, 1996
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S76790
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C;Species: Nostoc sp. PCC 7120
A;Note: Nostoc sp. strain PCC 7120 is a symonym of Anabaena sp. strain PCC C;Date: 14-Dec-2001 #sequence_revision 14-Dec-2001 #text_change 09-Dec-2002 C;Accession: ACC316
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             R;Read, T.D.; Brunham, R.C.; Shen, C.; Gill, S.R.; Heidelberg, J.F.; White, O., C.; Dodson, R.; Gwinn, M.; Nelson, W.; DeBoy, R.; Kolonay, J.; McClarty, G.; Nucleic Acids Res. 28, 1397-1406, 2000.
A;Title: Genome sequences of Chlamydia trachomatis MoPn and Chlamydia pneumonia A;Reference number: A81500; MUID:20150255; PMID:10684935
A;Accession: A81679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Molecule type: DNA
A;Residues: 1-210 <KUR>
A;Ross-references: GB:BA000019; PIDN:BAB75781.1; PID:g17133217;
A;Experimental source: strain PCC 7120
C;Genetics:
A;Gene: alr4082
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A;Experimental source: strain Nigg (MoPn)
C;Genetics:
A;Gene: TC0662
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A;Title: Complete Genomic Sequence of the Filamentous Nitrogen-fixing Cyanobacterium An
A;Reference number: AB1807; MUID:21595285; PMID:11759840
A;Accession: AC2316
A; Reference number: S74322; MUID: 97061201;
                                               A; Title: Sequence analysis
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A;Molecule type: DNA
A;Residues: 1-246 <TET>
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Nakazaki, N.; Shimpo, S.; Sugimoto, M.; Takazawa, M.; Yamada, M.; Yasuda, M.; Tabata,
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163. 143.

A;Accession: \$76790
A;Accession: S076790
A;Status: nucleic acid sequence not shown; translation not shown
A;Molecule type: DNA
A;Residues: 1-295 < KRAN>
A;Residues: 1-295 < KRAN>
A;Cross-references: EMBL:D90916; GB:AB001339; NID:g1653715; PIDN:BAA18702.1; PID:g165379
A;Kote: the nucleotide sequence was submitted to the EMBL Data Library, June 1996
C;Genetics:
A;Start codon: GTG
C;Superfamily: fructosamine kinase δδ Search completed: March 11, 2004, 18:13:47 Job time: 5:1129 secs Вb Query Match 33.3%; Score 5; DB 2; Best Local Similarity 100.0%; Pred. No. 75; Matches 5; Conservative 0; Mismatches 132 WQTDN 136 2 WQTDN 6 Length 295; 0; Indels 0; Gaps 0

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# ALIGNMENTS

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į	•	beta-microseminoprotein precursor - human
		N;Alternate names: beta-inhibin; prostatic secretory protein; PSP-94; seminal plasma pr
		C:Date: 13-Jul-1990 #sequence revision 13-Jul-1990 #text change 20-Aug-1999
		C;Accession: A34567; A26451; A29777; A30984; A60673; S16238; I52682
	-	k;Green, C.B.; Llu, W.Y.; KWOK, S.C.M. Biochem. Biophys. Res. Commun. 167, 1184-1190, 1990
		A; Title: Cloning and nucleotide sequence analysis of the human beta-microseminoprotein (A; Reference number: A34567; MUID:90211299; PMID:2322265
		A; Status: not compared with conceptual translation
† * * * * * * * * * * * * * * * * * * *		Amolecule type: DNA
being printed,	,	A;Crostudes: I-11 CORD. A;Crost-references: GB:M34376; NID:q514370; PIDN:AAA59871.1; PID:q514372
ion.	-	R;Mbikay, M.; Nolet, S.; Fournier, S.; Benjannet, S.; Chapdelaine, P.; Paradis, G.; Dubinny 6 23-29 1987
		A)Title: Molecular cloning and sequence of the cDNA for a 94-amino-acid seminal plasma
		A;Reference number: A26451; MUID:87161231; PMID:3829888 A;Accession: A26451
scription		A; Molecule type: mRNA
ta-microseminopr	-	ı
Tale processing bro	• 1	Richim Biochim 20 200 200 200 000 000 000 0000 1100x101, x.r.; Isuda, x.; nata, i
orionic gonadotr	-	A, Title: The amino acid sequence of human beta-microseminoprotein.
crionic gonadotr		A;Reference number: A29777; MUID:8519974; PMID:3998056
steriolysin O pr		A, Molecule type: protein
steriolysin prec		
eligeriolysin -		K;Seadan, N.G.; Arbatti, N.J.; Rochemont, J.; Sheth, A.R.; Chretien, M. FEBS Lett. 175, 349-355, 1984
pothetical prote		A/Title: Complete amino acid sequence of human seminal plasma beta-inhibin. Prediction (
pothetical prote tty acid-binding		A;Reference number: A30984; MUID:85004133; PMID:6434350 A;Accession: A30984
pothetical prote		A; Molecule type: protein
rtochrome c554 VC		A; Restaues: ZF-11Z, G', L14 < SEL> R; Weiber, H.; Andersson, C.; Murne, A.; Rannevik, G.; Lindstroem, C.; Lilja, H.; Fernlur
pothetical prote		,
pothetical prote		A;Reference number: A60673; MUID:90379237; PMID:2005099
pothetical prote	•	A;Accession: A60673
mH protein [impo		A;Molecule type: protein A;Residues: 21, 'X', 23-34 <wei></wei>
pothetical prote		A/Experimental source: gastric juice
pothetical prote		R; Nolet, S.; Mbikay, M.; Chretien, M.
anched-chain ami		BIOCHIM. BIOCHYS. ACCA 1009, 247-249, 1991. Gene organization and promoter semience in A.Thile. Prostatic secretory protein PSP(94). Gene organization and promoter semience in
nserved hypothet		A; Reference number: S16237; MUID: 91274357; PMID: 2054385
NA pseudouridine	-	A;Accession: S16238 A;Molecule tvre: DNA
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RESULT 2
A54663
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A;Map position: 10q11.2-10q11.2
A;Introns: 1/3; 37/1; 72/2
C;Superfamily: seminal plasma protein
C;Keywords: semen
                                                                                                                                                                                                                                                                                                                                                                                         A;Cross-references: EMBL:X57932; NID:g38094; PIDN:CAA41003.1; PID:g829152 A;Note: the authors translated the codon ACT for residue 54 as Trp R;Nolet, S.; St-Louis, D.; Mbikay, M.; Chretien, M. Genomics 9, 775-777, 1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C;Species: Macaca mulatta (rhesus macaque)
C;Date: 02-Jun-1995 #sequence revision 02-Jun-1995 #text_change 20-Aug-1999
C;Accession: S16237; A54663
R;Nolet, S.; Mbikay, M.; Chretien, M.
Biochim. Biophys. Acta 1089, 247-249, 1991
A;Title: Prostatic secretory protein PSP(94): gene organization and promoter sequence A;Reference number: S16237; MUID:91274357; PMID:2054385
A;Accession: S16237
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Cancer lett. 74, 91-99, 1993
A;Title: Decreased expression of prostatic
A;Reference number: I52682; MUID:94115955;
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В
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                                                                                                                                                                                                                                        A;Cross-references: GB:M92161; NID:g342280; C;Genetics:
                                                                                                                                                                                                                                                                                                                                                   A;Title: Rapid evolution of prostatic protein PSP-94 suggested by sequence divergence A;Reference number: A54663; MUID:91244325; PMID:2037304
                                                                                                                                                                                                                                                                                     A;Molecule type: mRNA
A;Residues: 1-114 <NOL>
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Best Local S
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ;21-114/Product: seminal
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Similarity 100.0%;
54; Conservative 0
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CORIFKKEDCKYIVVEKK 101
                                CORIFKKEDCKYIVVEKK 51
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plasma protein #status experimental <MAT>
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Pred. No.
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Pred. No. 8.2e-61;
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7.4e-12
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beta-microseminoprotein - pig
(;Species: Sus scrofa domestica (domestic pig)
C;Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text
C;Accession: S41663
R;Fernlund, P.; Granberg, L.B.; Roepstorff, P.
Arch. Biochem. Biophys: 309, 70-76, 1994
A;Reference number: S41663; MUID:94161559; PMID:8117114
A;Accession: S41663; MUID:94161559; PMID:8117114
A;Accession: S41663
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S26482
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S41663
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                                                                                                                                                                            R;Grover, S.; Woodward, S.R.; Caticha, O.; Carrell, D.T.; Odell, W.D.
Biochem. Biophys. Res. Commun. 190, 371-376, 1993
A;Title: Partial nucleotide sequence of the Xanthomonas maltophilia chorionic gonadotro
A;Reference number: PC1244; MUID:93151816; PMID:8427582
                                                                                                                                                                                                                                           chorionic gonadotropin-like receptor - Xanthomonas maltophilia (fragment) C;Species: Xanthomonas maltophilia C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 30-Sep-19 C;Accession: PC1244
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A;Accession: S26482
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C;Species: Xanthomonas maltophilia
C;Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 08-Oct-1999
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C;Superfamily: seminal plasma protein
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                                                                                                                                 A; Molecule type: DNA
A; Residues: 1-113 <GRO>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; Cross-references: EMBL: X68371; NID: g48553; PIDN: CAA48451.1;
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                                                                                                                                                                A; Accession: PC1244
                                                                                                              ;Note: the authors translated codon
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                                . Similarity 7; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Partial nucleotide sequence of the Xanthomonas maltophilia CG-receptor
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                                                   10:9%;
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100.0%; Pred. No. 3.
tive 0; Mismatches
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ivanolysin precursor - Listeria ivanovii
()Species: Listeria ivanovii
()Species: Listeria ivanovii
()Date: 07-Apr-194 #sequence_revision 07-Apr-1994 #text_change 21-Aug-1998
()Accession: $22341; $36683; Rreft, U.
Biochim. Biophys. Acta 1130, 81-84, 1992
A;Title: Listeriolysin genes: complete sequence of ilo from Listeria ivanovii A;Reference number: $22340; MUID:92182018; PMID:1543752
A;Accession: $23341
              A;Title: Identification of the structural gene encoding the SH-activated hemolysin A;Reference number: A47606; MUID:88057627; PMID:2824384 A;Accession: A47606
                                                                                    A;Molecule type: DNA
A;Residues: 1-529 <DON>
A;Cross-references: EMBL:X15127; NID:g44106; PIDN:CAA33223.1; PID:g44107
A;Cross-references: EXBL:X15127; NID:g44106; PIDN:CAA33223.1; PID:g44107
A;Experimental source: strain EGD
A;Note: this sequence is derived from a weakly hemolytic strain, serotype
R;Mengaud, J; Chenevert, J; Geoffroy, C; Gaillard, J.L; Cossart, P.
Infect. Immun. 55, 3225-3227, 1987
                                                                                                                                                                                                                                                                                                         R;Domann, E.; Chakraborty, T.

Nucleic Acids Res. 17, 6406, 1989

A;Title: Nucleotide sequence of the listeriolysin gene
A;Reference number: S05306; MUID:89366684; PMID:2505236
                                                                                                                                                                                                                                                                                                                                                                                                        A; Molecule type: DNA
A; Residues: 1-529 <MEN>
A; Residues: 1-529 <MEN>
A; Residues: 1-529 <MEN>
A; Cross-references: GB: M24199; NID:g149652; PIDN: AAA03018.1; PID:g149653
A; Note: this sequence is derived from a strongly hemolytic strain, serot
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C;Date: 21-Oct-1992 #sequence revision 21-Oct-1992 #text_change 20-Aug-1999
C;Date: 21-Oct-1992 #sequence revision 21-Oct-1992 #text_change 20-Aug-1999
C;Accession: A43505
R;Mengaud, J.; Vicente, M.F.; Chenevert, J.; Pereira, J.M.; Geoffroy, C.; G:
Infect. Immun. 56, 766-772, 1988
A;Title: Expression in Escherichia coli and sequence analysis of the listeria; Reference number: A43505, MUID:88153053; PMID:3126142
A;Accession: A43505
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A;Reference number: S36683
A;Accession: S36683
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A; Residues: 1-528 < HAS>
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;Residues: 1-319,'T'
Status: preliminary
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Science 294, 849-852, A; Authors: Kreft, J.; ok, C.; Schlueter, T.

D.; Jones,

L.M.; Karst,

R;Glaser, P.; Frangeul, L.; Buchrieser, C.; Amend, A.; Baquero, F.; Berche, P.; Dominguez-Bernal, G.; Duchaud, E.; Durand, L.; Dussurget, O.; Entian, K.D.; F

; Bloecker Fsihi, H.

.; Kuhn, M.; Kunst, F.; Kurapkat, G.; Madueno, E.; Maitournam, A.; MaT.; Simoes, N.; Tierrez, A.; Vazquez-Boland, J.A.; Voss, H.; Wehland, e genomics of Listeria species.

listeriolysin O precursor [imported] - Listeria monocytogenes (strain EGD-e) (Species: Listeria monocytogenes C; Date: 27-Nov-2001 #sequence\_revision 27-Nov-2001 #text\_change 17-May-2002 C; Accession: AC1100

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Mol. Microbiol. 4, 2167-2178, 1990
A;Title: Attenuated mutants of the intracellular bacterium Listeria A;Accession: $12400; MUID:91211627; PMID:1965218
A;Accession: $12400
                                                                                                                                                                                                                                                     C/Superfamily: dipeptide transport protein C/Keywords: virulence factor F/1-25/Domain: signal sequence #status predicted F/26-529/Product: listeriologic #status predicted
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A;Experimental source: strain 12067, serotype 4b
A;Note: the nucleotide sequence was submitted to the EMBL Data Library,
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A;Variety: strain 12667
C;Date: 22-Nov-1993 #sequence_revision 10-Nov-1995 #text_change
C;Accession: S24231
R;Rasmussen, O.F.; Beck, T.; Olsen, J.E.; Dons, L.; Rossen, L.
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A;Gene: hlyA; lisA
A;Gene: hlyA; lisA
C;Superfamily: dipeptide transport protein
C;Keywords: virulence factor
F;1-25/Domain: signal sequence #status predicted <SIG>
F;26-529/Product: listeriolysin O #status predicted <MAT>
AC1100
                    RESULT 9
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A;Accession: $24231
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A; Residues: 483-493 <MIC>
A; Experimental source: strain LO28,
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A; Cross-references: GB:M29171
R; Michel, E.; Reich, K.A.; Fax
Mol. Microbiol. 4, 2167-2178,
                                                                                                                                                                                                                                                                                                                                                           C; Genetics:
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A; Residues: 1-529 < RAS>
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7; Conser
                                                                                                                       YIVVEKK 51
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                                                                                                                                                                10.9%; Score 7; llarity 100.0%; Pred. N Conservative 0; Misma
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A;Map position:
A;Introns: 27/2
C;Superfamily: 1
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Biochim. Biophys. Acta 1130, 81-84, 1992
A;Title: Listeriolysin genes: complete sequence of ilo from Listeria ivanovii
A;Reference number: S22340; MUID:92182018; PMID:1543752
A;Accession: S22340
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C;Species: Listeria seeligeri
C;Date: 22-Nov-1993 #sequence_revision 01-Dec-1995 #text_change 20-Aug-1999
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C;Superfamily: dipeptide
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A;Residues: 1-529 <GLA>
A;Cross-references: GB:NC_003210; PIDN:CAD00729.1; PID:g16409567; GSPDB:GN00177
A;Experimental source: strain EGD-e
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                                                                                                                                                                                                                                                                                                                                            hypothetical protein F58B3.5 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Species: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 06-Jan-2003
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A; Residues: 1-530 <HAA>
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A; Residues: 1-529 <GI
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A;Residues: 1-917 <WIL>
A;Cross-references: EMBL:Z73427; PIDN:CAA97803.1; GSPDB:GN00022; CESP:F58B3.5
A;Experimental source: clone F58B3
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S
                                                                                                                                                                                                                                                                                              R;Harris, B. submitted to the EMBL Data Library, May 1996
                                                                                                                                                                                                                               A; Molecule type: DNA
                                                                                                                                                                                                                                           A;Status: preliminary; translated from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                A; Reference number:
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                                                               Query Match
                                                                                                                                                Gene: CESP:F58B3.5
                                                                                              position: 4
rons: 27/2; 135/2; 620/1; 655/1; 874/3
erfamily: methionyl-tRNA synthetase, dimer-forming
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VEKKOPK 54
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100.0%; Pred. No. 21
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R;She, Q.; Singh, R.K.; Confalonieri, F.; Zivanovic, Y.; Allard, G.; Awayez, M.J.; Cha. Jong, I.; Jeffries, A.C.; Kozera, C.J.; Medina, N.; Peng, X.; Thi-Ngoc, H.P.; Redder, arrett, R.A.; Ragan, M.A.; Sensen, C.W.; Van der Oost, J. submitted to GanBank, April 2001

A;Description: Sulfolobus solfataricus complete genome.
                                                                                                                                                                                                                                                                                                                                                A;Cross-references: GB:M35992; NID:g204087; PIDN:AAA41141.1; PID:g204088 R;Alpers, D.H.; Strauss, A.W.; Ockner, R.K.; Bass, N.M.; Gordon, J.I. Proc. Natl. Acad. Sci. U.S.A. 81, 313-317, 1984 A;Title: Cloning of a cDNA encoding rat intestinal fatty acid binding prof; A;Reference number: A03147; MUID:84119477; PMID:6582489 A;Accession: A03147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A;Cross-references: GB:AE006641; NID:g13813959; PIDN:AAK41081.1; GSPDB:GN00155
C;Genetics:
A;Gene: SS00783
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-129 <KUR>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     hypothetical protein SS00783 [imported] - Sulfolobus solfataricus C;Species: Sulfolobus solfataricus C;Date: 24-May-2001 #sequence_revision 24-May-2001 #text_change 24-May-2001 C;Accession: B90228
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         R;Gordon, J.I.; Lowe, J.B.
Chem. Phys. Lipids 38, 137-158, 1985
A;Tille: Analyzing the structures, function
A;Reference number: I52850; MUID:86053743;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C;Species: Rattus norvegicus (Norway rat)
C;Date: 17-Dec-1982 #sequence_revision 21-Feb-1997 #text_change 22-Jun-1999
C;Accession: 165761; A03147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         fatty acid-binding protein, intestinal - N_{\ell}Alternate\ names\colon\ FABP
                                                                                                                                                                               F;127/Binding site: fatty acid (Arg) #status predicted
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A; Residues: 1-132 < RE
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                                                                                                                                                                                                                                                                              A;Molecule type: mRNA
A;Residues: 1-9,'Y',11-82,'L',84-132 <ALP>
A;Cross_references: GB_KO1180; NID:g204081; PIDN:AAA41138.1; PID:g204082
                                                                                                                                                                                                        Superfamily: myelin P2 protein ; Superfamily: myelin P2 protein ; Keywords: blocked amino end; intestine; lipid binding ; 2/Modified site: blocked amino end (Ala) (in mature form)
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100.0%;
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tive 0; Mismatches
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C;Superfamily: cofilin
C;Keywords: actin binding
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(;Species: Zea mays (maize)
C;Date: Z4-Mar-1999 #sequence_revision 24-Mar-1999 #text_change 29-Oct-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Residues: T-132 <ALB>
A;Cross-references: EMBL:Y12762; NID:e1045993; PIDN:CAA73301.1; PID:e314311
A;Experimental source: strain L.W64-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         probable actin-depolymerizing factor -
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R;ALba, M.M.; Vinti, G.; Messeguer, R.; Pages, M. submitted to the EMBL Data Library, April 1997
A;Reference number: Z14927
A;Accession: T03397
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Best Local S
Matches 6
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*Kawamukai, M.

ubmitted to the EMBL Data Library, December 1996

*Description: S. pombe cDNA for actin depolymerizing factor.
                                                                                                                                                                                                                                                         ;Map position: 1 ;Introns: 1/3; 37/1
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Best Local S
                                                                                                                                                                                                                                                                                                           Gene: SPAC20G4.06c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ;Cross-references: EMBL:D89939; PIDN:BAA14039.1;Connor, R.; Churcher, C.M.; Barrell, B.G.; Rajandream, M.A.; Wood, bentited to the EMBL Data Library, August 1996;Reference number: Z21771;Accession: T38120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ;Status: preliminary; translated from GB/EMBL/DDBJ;Molecule type: mRNA;Residues: 1-137 <KAW>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Description: S. pombe cDi
Reference number: Z22362
Accession: T43245
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ;Status: preliminary; translated from GB/EMBL/DDBJ;Molecule type: mRNA
                                                                                                                                                                                                                                                                                                                                                      Cross-references: EMBL:Z98600; PIDN:CAB11258.1; GSPDB:GN00066; SPDB:SPAC20G4.06c Experimental source: strain 972h-; cosmid c20G4
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39 IVVEKK 44
                                          46 IVVEKK 51
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prostate can
Cancer Lett.
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              TISSUE=Prostate;

MEDINE=94115955; PubMed=7506990;

Liu A.Y., Bradner R.C., Vessella R.

"Decreased expression of prostatic prostate cancer.";

Cancer Lett. 74:91-99(1993).
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P08118; P11999; Q13125; Q9UC59;

01-AUG-1988 (Rel. 08, Created)

01-AUG-1988 (Rel. 08, Last sequence update)

10-OCT-2003 (Rel. 42, Last annotation update)

Beta-microseminoprotein precursor (Prostate secreted protein) (Prostate secretory protein PSP94) (PSP-94)

beta-inhibin) (Immunoglobulin binding factor) (IGSP)
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"Molecular cloning of a small prostate prot microsemenoprotein, PSP94 or beta-inhibin, transcripts in non-genital tissues.";
                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
MEDLINE=90073664; PubMed=2590204;
MUVSDaeck M., Lindstroem C., Welber H., Abrahamsson P.-A., Lilja H.,
                                                                                                                                                                                                                                                                                                                                                            "Cloning and nucleotide sequence analysis of the human microseminoprotein gene."; Blochem. Biophys. Res. Commun. 167:1184-1190(1990).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDIINE=91274357; PubMed=2054385;
Nolet S., Mbikay M., Chretten M.;
"Prostatic secretory protein PSP94: gene organization sequence in rhesus monkey and human.";
Sicchim. Biophys. Acta 1089:247-249(1991).
                                                                                                                                           SEQUENCE FROM N.A.
                                                                                                                                                                                   Biochem.
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Green C.B., Liu W.Y.,
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"Molecular cloning
seminal plasma prot
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MEDLINE=87161231; PubMe
Mbikay M., Nolet S., Fo
Paradis G., Dube J.Y.,
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Homo sapiens (Human).
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
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S., Fournier S., B:
J.Y., Tremblay R.,
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Y., Kwok S.C.M.;
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                                                             secretory protein PSP94
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Result No.

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Query Match

Length

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Description

P08118

homo sapien

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MSMB MSMB EMSM

HUMAN MACMU SAGOE

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SUMMARIES

YHS6\_YEAST RUVA\_STRP8 RUVA\_STRPY

MSMB\_MOUSE RK20\_SPIOL FABI\_RAT

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EF1A\_ORYSA EF1A\_PEA EF1A\_SOYBN

Q9dga0 P34823 Q41803

9 saccharomyc
0 oryzias jav
3 daucus caro
3 zea mays (m
7 oryza sativ
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Run on:

March 11,

2004, 17:57:02; Search time 11.871 Seconds (without alignments) 280.726 Million cell update

cell updates/sec

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Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
Strausberg R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
Brownstein M.J., Uddin T.B., Toshiyuki S., Carninci P., Prange C.,
Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
Bosak S.A., McSwan P.J., McKernan K.J., Malek J.A., Gunarathe P.H.,
Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
villalno D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
Fahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,
Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
Blakk D. W. Walland A., Young A.C., Shevchenko Y., Bouffard G.G.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "Prostate cell line Submitted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Blakesiey R.W., Touchman J.W., Green E.D., Dickson M.C., Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.B., Scherch A., Schein J.E., Jones S.J.M., Marra M.A.; "Generation and initial analysis of more than 15,000 full-leng human and mouse cDNA sequences."; proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
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TISSUE=Prostate;
MEDLINE=96032566;
                TISSUE-Semen;
TISSUE-Semen;
MEDLINE-95401076; PubMed-7671139;
Ohkubo I., Tada T., Ochiai Y., Ue
                                                                                                                                                                                                                                MEDLINE-85004133; PubMed=643450;
Seidah N.G., Arbatti N.J., Rochemont J., Sheth A.R., Chretien M.;
Seidah N.G. amino acid sequence of human seminal plasma beta-inhibin.
"Complete amino acid sequence of human seminal plasma beta-inhibin.
Prediction of post Gln-Arg cleavage as a maturation site.";
                                                                                                                                                                                                                                                                                                                                            Akiyama K., Yoshio
Tsuda R., Hara M.;
"The amino acid se
                                                                                                                                                                                                                                                                                                                                                                                         MEDLINE=85199974;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDIINE=99421644; PubMed=10491085; Maekinen M., Valtonen-Andre C., Lundwall A.; "New world, but not old world, monkeys carry beta-microseminoprotein.";
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              "Human seminal
                                                                                                         secretory protein
Biochem. Biophys.
                                                                                                                                                     MEDLINE=92028964; I
Liang Z.G., Kamada
                                                                                                                                                                                                                                                                                                SEQUENCE OF 21-114
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                                                                                                         Liang Z.G., Kamada M., Koide S.S.;
"Structural identity of immunoglobulin binding fa
secretory protein of human seminal plasma.";
Biochem. Biophys. Res. Commun. 180:356-359(1991)
                                                                                                                                                                                                                              Prediction of
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oka Y., Schmid K.,
                                                                                                                                                     PubMed=1930232;
a M., Koide S.S.;
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Ochiai Y., Ueyama H., Eimoto T., Sasaki M.; ma beta-microseminoprotein: its purification nd immunohistochemical localization.";
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EMBL; M34373; AAA
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InterPro; IPR008735; PSP94.
Pfam; PF05825; PSP94; 1
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                                                                                                                                                                                                                                                                                                                                              A34567; A34567.
G01730; G01730.
W; HGNC:7372; MSMB.
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AAA36635.1
CAA41002.1
CAA41002.1
CAA41002.1
CAA41002.1
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AAA83556.1
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/FTId=VSP\_003275.
Missing (In isoform PSP57).
/FTId=VSP\_003276.
L -> S (in dbsNP:1804776).
/FTId=VAR\_011935.
I -> M (in dbsNP:1804778).

KCMDLKGNKHPINSEWQTDNCETCTCYETEISCCTLVSTPV
-> MFLHLWVMTKTTAKESSRRRTASISWWRRRTQKRPVLS
VNG (in isoform PSP57).

Alternative

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OR 70 (BY SIMILARITY).
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the European Bioinformatics Institute. The use by non-profit institutions as long modified and this statement is not removed.
                                                                                                      entities requires a license agreement (See or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                       ISOId=P08118-2; Sequence=VSP_003275, VSP_003276;
TISSUE SPECIFICITY: Strongly expressed in prostate, liver, kid breast and penis. Also expressed in pancreas, esophagus, stoma deodenum, colon, trachea, lung, salivary glands and fallopian tube. PSP94 is expressed in lung and breast, whereas PSP57 is found in kidney and bladder.

MISCELLANEOUS: SPECIFIC RECEPTORS FOR THIS PROTEIN ARE FOUND CSPERMATOZOA AND IN THE PROSTATE.

SIMILARITY: Belongs to the beta-microseminoprotein family.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDLINE=91274357; PubMed=2054385;
Nolet S., Mbikay M., Chretlen M.;
"Prostatic secretory protein PSP94: gene organization sequence in rhesus monkey and human.";
Biochim. Biophys. Acta 1089:247-249(1991).
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01-MAY-1992 (Rel. 22, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Beta-microseminoprotein precursor (Prostate s
                                                                                                                                                                                                                                                                                                                                                                      use by non-profit institutions as long modified and this statement is not removed. entities requires a license agreement (See or send an email to license@isb-sib.ch).
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MCBI_TaxID=9544;
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                                                                                                                                                                            Pfam; PF05825;
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RESULT 4
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EMBL; AJ010156; CAB38123.1; JOINED
EMBL; AJ010157; CAB38123.1; JOINED
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MEDLINE=99421644; PubMed=10491085;
Maekinen M., Valtonen-Andre C., Lundwall
"New world, but not old world, monkeys ca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Saguinus oedipus (Cotton-top tamarin).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eutele
Mammalia; Eutheria; Primates; Platyrrhini; Callitrichidae;
                                                                                    SEQUENCE
                                                                                                                                                                                            GO; GO:0005576; C:extracellular; NAS InterPro; IPR008735; PSP94.
                                                                                                                                                                                                                                                                                                                                                                                          beta-microseminoprotein.";
Eur. J. Biochem. 264:407-414(1999)
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28-FEB-2003
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Pred. No.
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EMBL; AJ010159; CAB38124.1; JOINE
GO; GO:0005576; C:extracellular;
InterPro; IPR002400; GF cysknot.
InterPro; IPR008735; PSP94.
Pfam; PF05825; PSP94; 1.
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Maekinen M., Valtonen-Andre C., Lundwall A.;
"New world, but not old world, monkeys carry several
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota; Metazoa;
Mammalia; Eutheria;
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28-FEB-2003 (Rel. 41, Last
28-FEB-2003 (Rel. 41, Last
Beta-microseminoprotein Al
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01-NOV-1997 (Rel. 35,
28-FEB-2003 (Rel. 41,
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Eur. J. Biochem. 264:407-414(1999).
  SEQUENCE
                                     Eukaryota; Metazoa; Chordata; Mammalia; Butheria; Primates; Cercopithecinae; Papio. NCBI_TaxID=9555;
                                                                                                                                                         protein) (Prostate secretory MSMB OR PSP94
                                                                                                                                                                                 01-NOV-1997 (Rel. 35, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Beta-microseminoprotein precursor (Prostate s.
protein) (Prostate secretory protein PSP94) (
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oa; Chordata; Craniata
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BETA-MICROSEMINOPROTEIN A1.

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                                                                                         Craniata; Vertebrata; Euteleostomi; Catarrhini; Cercopithecidae;
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MEDLINE-9731893; PubMed=9174167;
Xuan J.W., Mu D., Guo Y., Garde S., Shum D.T., Mbik
Chin J.L.;
"Molecular cloning and gene expression analysis of
secretory protein of 94 amino acids) in primates.";
DNA Cell Biol. 16:627-638(1997).
ONA Cell Biol. 16:627-638(1997).
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between the Swiss Institute of Bioinformatics and the EMBL the European Bioinformatics Institute. There are no restrict use by non-profit institutions as long as its content is modified and this statement is not removed. Usage by and for entities requires a license agreement (See http://www.isb-sib.
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28-FEB-2003 (Rel. 41, Last sequence up
28-FEB-2003 (Rel. 41, Last annotation
Beta-microseminoprotein E1 precursor
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Eur. J. Biochem. 264:407-414(1999).
-!- FUNCTION: Inhibits the secretio
                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.
MEDLINE=99421644; PubMed=10491085;
Maekinen M., Valtonen-Andre C., Lundwall A.;
Maekinen M., but not old world, monkeys carry
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Mammalia;
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                                                                                                                                     This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the EN
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Eutheria;
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RESULT 7
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01-NOV-1997 (Rel. 35, Created)
01-NOV-1997 (Rel. 35, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Beta-microseminoprotein precursor (Prostate s
                                                                                                                                                                                                                 SEQUENCE OF Z1-1-2
TISSUE-Seminal plasma;
MEDLINE-94161559; PubMed-8117114;
MEDLINE-94161559; PubMed-8117114;
Pernlund P., Granberg L.B., Roepstorff P.;
Pernlund P., Granberg beta-microseminoprotein
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                                                                    This SWISS-PROT entry is copyright. It is produced through a collab between the Swiss Institute of Bioinformatics and the EMBL outset the European Bioinformatics Institute. There are no restrictions use by non-profit institutions as long as its content is in modified and this statement is not removed. Usage by and for commodified and this statement is not removed.
                                                                                                                                                                                                                                                                                                                             MEDLINE=96117078; PubMed=8562060; Tanaka T., Itahana K., Andoh N., Takeya T., Sato E.; Tanaka T. Itahana K., Andoh N., Takeya T., Sato E.; "Expression of prostatic secretory protein (PSP)-like protein in porcine corpus luteum: isolation and characterization of a new gencoding PSP94-like protein."; "Sato PSP94-like protein."; "Sato PSP94-like protein.";
            EMBL; S80724; AAB50711.1; .
InterPro; IPR008735; PSP94.
                                               use by non-profit institutions as lon modified and this statement is not removentitles requires a license agreement (s or send an email to license@isb-sib.ch).
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Mammalia; Eutheria;
NCBI_TaxID=9823;
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SUBCELLULAR LOCATION:
                                                                                                                                          TISSUE SPECIFICITY: CORPORA LUTEA, MOSTLY IN THE LUTEAL CE SURROUNDING BLOOD VESSELS.
SIMILARITY: Belongs to the beta-microseminoprotein family.
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gonadotropin-like receptor.";
Biochem. Biophys. Res. Commun. 190:371-376(1993).
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Grover S., Woodward S.R., Caticha O., Carrell D
"Partial nucleotide sequence of the Xanthomonas
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NCBI_TaxID=40324;
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R PIR, S22341; S22341.

R PIR, S22341; S22341.

JR HSSP, P1995; 1PFO.

DR InterPro; IPRO01869; Thiol_cytolysin; 1.

DR Pfam; PF01289; Thiol_cytolysin; 1.

DR PRINTS; PR01400; TACTOLYSIN.

DR PRODOm; PD007062; Thiol_cytolysin; 1.

PROSITE; PS00481; THIOL_CYTOLYSINS; 1.

PROSITE; PS00481; TOXin; Lipid-binding; Signal.
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Haas A., Dumbsky M., Kreft J.;

"Listeriallysin genes: complete sequence of ilo from Listeria ivalence of form Listeria seeligeri.";

and of lso from Listeria seeligeri.";

Biochim. Biophys. Acta 113:81-94(1992).

-i- FUNCTION: SULFHYDRYL-ACTIVATED TOXIN. IS ABLE TO LYSE CHOLES:

CONTAINING MEMBRANES. CAN BE REVERSIBLY INACTIVATED BY OXIDA:

CHOLESTEROL IS THE RECEPTOR FOR THE BINDING OF THESE TOXINS:

EUKARYOTIC CELL MEMBRANES.

-i- SIMILARITY: Belongs to the thiol-activated cytolysin family.
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STANDARD;
PRT; 529 AA.
P13128; Q48747; Q57096; Q57206;
01-JAN-1990 (Rel. 13, Created)
01-JAN-1990 (Rel. 13, Last sequence update)
15-MAR-2004 (Rel. 43, Last amotation update)
15-MAR-2004 (Rel. 43, Last amotation update)
11-Steriolysin Opecursor (Thiol-activated cy
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"Nucleotide sequence of the listeriolysin monocytogenes serotype 1/2a strain."; Nucleic Acids Res. 17:6406-6406(1989).
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                                                                STRAIN=EGD / Serovar 1/2a;
MEDLINE=89366684; PubMed=2505236;
Domann E., Chakraborty T.;
                                                                                                                                    SEQUENCE FROM N.A.
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Bacteria; Firmicutes; E
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Bacteria; Firmicutes;
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BINDING TO CHOLESTEROL; D133BEC1A8C51A65 CRC6
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Radiaser P., Frangeul L., Buchrieser C., Rusnick C., Amend A.,
A Baquero F., Berche P., Bloecker H., Brandt P., Chakraborty T.,
A Baquero F., Berche P., Bloecker H., Brandt P., Chakraborty T.,
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"Comparative genomics of Listeria species.";
L Science 294:849-852 (2001)
C.-!- FUNCTION: SULFHYDRYL-ACTIVATED TOXIN IS ABLE TO LYSE CHOLESTEROL CONTAINING MEMBRANES. CAN BE REVERSIBLY INACTIVATED BY OXIDATION.
C.-!- FUNCTION: SULFHYDRYL-ACTIVATED TOXIN IS ABLE TO LYSE CHOLESTEROL CONTAINING MEMBRANES.
CAN BERVERSIBLY INACTIVATED BY OXIDATION.
C.-!- SIMILARITY: Belongs to the thiol-activated cytolysin family. EMBL; X15127; CAA33223.1; -.
EMBL; WA4199; AAA03018.1; -.
EMBL; W60035; CAA42639.1; -.
EMBL; U25443; AAA69528.1; ALT
EMBL; U25449; AAA69528.1; ALT
EMBL; U25449; AAA69521.1; ALT
EMBL; U25452; AAA69534.1; -.
EMBL; U25452; AAA69534.1; -.
EMBL; AL591974; CADD00729.1; FIR; A43505; A43505.
PIR; AC1100; AC1100.
PIR; SA2331; S24231. HSSP; P19995; ... Listilist; LM000202; -. InterPro; IPR001869; Thiol\_cytolysin. Pfam; PF01289; Thiol\_cytolysin; 1. PRINTS; PR01400; TACYTOLYSIN. Mengaud J., Vicente M.-F., Chenevert J., Pereira J.M., Geoff: Gicquel-Sanzey B., Baquero F., Perez-Diaz J.-C., Cossart P.; "Expression in Escherichia coli and sequence analysis of the listeriolysin O determinant of Listeria monocytogenes."; Infect. Immun. 56:766-772(1988). This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/ "Identification and characterization of nucleotide sequence differences in three virulence-associated genes of Listeria monocytogenes strains representing clinically important serotypes."; Curr. Microbiol. 36:309-318(1998). Rasmussen O.F., Beck T., Olsen J.E., Dons L., Rossen L.; "Listeria monocytogenes isolates can be classified into two major types according to the sequence of the listeriolysin gene."; Infect. Immun. 59:3945-3951(1991). SEQUENCE FROM N.A.
STRAIN=F2365 / Serotype 4b, F5782
STRAIN=F2365 / Serotype 1/2b, and F6789
F4233 / Serotype 1/2b, and F6789
MEDLINE=98210071; PubMed=9541569; STRAIN=EGD-e / Serovar 1/2a; MEDLINE=21537279; PubMed=11679669; MEDLINE=88153053; PubMed=3126142; Swaminathan email to license@isb-sib.ch). ; CAA33223.1; -.; AAA03018.1; -.; CAA42639.1; -.; AAA69525.1; -. AAA69525.1; -.
AAA69528.1; ALT\_INIT.
AAA69531.1; ALT\_INIT.
AAA69534.1; -. PubMed=1937753; . . e 4b, F5782 / and F6789 / 9 / Serotype 4b, Serotype 1/2b, Geoffroy c.,

PROSITE; ProDom;

PD007062; PS00481;

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PROSITE; PS00481; THIOL_CYTOLYSINS; 1.
Cytolysis; Hemolysis; Toxin; Lipid-binding; Signal
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Pfam; PF01289; Thiol cytolysin; 1.
PRINTS; PR01400; TACTTOLYSIN.
PRINTS; PR01400; TACTTOLYSIN.
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Haas A., Dumbsky M., Kreft J.;
"Listeriolysin genes: complete sequence of ilo from Listeria ivanovii and of 1so from Listeria seeligeri.";
and of 1so from Listeria seeligeri.";
Biochim. Biophys. Acta 1130:81-84(1992).
-!- FUNCTICUS. SULFHYDRYL-ACTIVATED TOXIN. IS ABLE TO LYSE CHOLESTEROL-
CONTAINING MEMBRANES. CAN BE REVERSIBLY INACTIVATED BY OXIDATION.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Listeria seeligeri.
Bacteria; Firmicutes;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             P31830;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          VARIANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     VARIANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          VARIANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        VARĪANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Cytolysis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CHOLESTEROL IS THE RECEPTOR FOR THE BINDING OF THESE TOXINS EUKARYOTIC CELL MEMBRANES.
SIMILARITY: Belongs to the thiol-activated cytolysin family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LISSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               86
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        YIVVEKK 51
                                                 485
530 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           529 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (Rel.
(Rel.
(Rel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     26, Createu,
26, Last sequence update,
43, Last annotation update)
~~ecursor (Thiol-activated cytolysin).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Thiol_cytolysin; 1.
THIOL_CYTOLYSINS; 1.
sis;_Toxin; Lipid-binding;
                                                                       485
85
85
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                . 484
354
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438
                                                    59181 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             58688
       10.9%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Bacillales; Listeriaceae; Listeria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0;
                                                                    SEELIGERIOLYSIN.
BINDING TO CHOLESTEROL (BY SIMILARITY).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 7;
Pred. No.
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K -> S (IN STRAINS F2365,

F6789 AND 12067).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              M -> I (IN STRAIN F2365).
V -> I (IN STRAINS F2365,
       Score
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F6789 AND 12067).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LISTERIOLYSIN O.
BINDING TO CHOLESTEROL
                                               416F7A4DD2029866 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             83B6B0C11C033FB1 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
       7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                530
                                                                                                                                                                                                                                                                                                                                                                                       (See http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 1;
       BB
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       Signal; Complete proteome
Length 530
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     F4233,
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RESULT 12
SYM_CAEEL
ID SYM_CAEEL
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                                               Query Match
Best Local S
Matches 7
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Matches 7; Conserv
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WormPep; F58B3.5; CE05007.

InterPro; IPR008224; MetRS dimerising.

InterPro; IPR008994; NucleIc_acid_OB.

InterPro; IPR002300; tRNA-symt_1.

InterPro; IPR001412; tRNA-symt_met.

InterPro; IPR002304; tRNA-symt_met.

InterPro; IPR002304; tRNA-bind.
                                                                                                 BINDING
DOMAIN
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Q20970;
15-DEC-1998
                                                                                                                                      SITE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Submitted (MAY-1996) to the EMBL/GenBank/DDBJ databases.
-!- CATALYTIC ACTIVITY: ATP + L-methionine + tRNA(Met) = AMP diphosphate + L-methionyl-tRNA(Met).
-!- SUBCELLULAR LOCATION: Cytoplasmic (By similarity).
-!- SIMILARITY: Belongs to class-I aminoacyl-tRNA synthetase.
-!- SIMILARITY: Contains 1 tRNA-binding domain.
                                                                                                                                                                                                                                                                                                                                                                                                                    between the Swiss Institute of Bioinformatics the European Bioinformatics Institute. There use by non-profit institutions as long as modified and this statement is not removed. U entities requires a license agreement (See htt or send an email to license@isb-sib.ch).
                                                                                                                                                                                    TIGREAMS; TIGRO0398; metG; 1.
PROSITE; PS00178; AA_TRNA_LIGASE_I; 1.
PROSITE; PS50886; TRBD; 1.
                                                                                                                                                                                                                          Pfam; PF00133; tRNA-synt 1; 1.
Pfam; PF01588; tRNA bind; 1.
PIRSF; PIRSF001528; MetRS dime
PRINTS; PR01041; TRNASYNTHMET.
                                                                                                                                                                                                                                                                                                                                                                                EMBL; Z73427; CAA97803.1; PIR; T22898; T22898.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the EN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRAIN-Bristol N2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Eukaryota; Metazoa; Nemato
Rhabditidae; Peloderinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15-DEC-1998 (Rel. 37, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Methionyl-tRNA synthetase (EC 6.1.1.10) (Methionine--tRNA ligase)
                                                                                                                                                             RNA-binding;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Harris B.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MRS-1 OR F58B3.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Caenorhabditis elegans.
                                                                                                                                                                           minoacyl-tRNA
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20
                      48
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                                               Similarity 7; Conser
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                        VEKKDPK 54
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                                                                                               367
370
756
917 }
                                                Conservative
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                                                                                                                                                               tRNA-binding.
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                                                                                                  AA;
                                                                                                                                                                           synthetase;
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26
                                                                                                             54
371
370
857
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                                                                                                  101713
                                                            10.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Created)
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                                                                                                  ¥.
                                                                                                                                                                           Protein biosynthesis; Ligase; ATP-binding
                                                0
                                                                                                           "HIGH" REGION.
"KMSKS" REGION.
ATP (BY SIMILARITY).
TRNA-BINDING.
                                                           Score 7;
Pred. No.
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); Mismatches
                                               Mismatches
                                                                                                  3B42AABA314FBDF0
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                                                          DB 1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A
                                                                                                                                                                                                                                                                                                                                                                                                                                  http://www.isb-sib
                                                                                                                                                                                                                                                                                                                                                                                                                                              Usage
                                                                                                                                                                                                                                                                                                                                                                                                                                                          its content
                                                                       Length 917;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0
                                                                                                  CRC64;
                                                Indels
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                                                Gaps
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RESULT
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DT 16
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OG C
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                                                                                                                                                                                                                                                                                              Query Match
Best Local :
                                                                                                                                                                                                                                                                                 Matches
                                                                            P28803; O9M3K6; 01-DEC-1992 (Rel. 24, Created) 01-DEC-1992 (Rel. 24, Last sequence update) 16-OCT-2001 (Rel. 41, Last annotation update) 28-FEB-2003 (Rel. 41, Last annotation updat Chloroplast 50S ribosomal protein L20.
                                                                                                                                                            SPIOL
RK20_8
                                                                                                                                                                                                                                                                                                                                                 DISULFID DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NSMB_MOUSE STANDARD; PRT; 113 AA.
008540;
008540;
15-UUL-1998 (Rel. 36, Created)
15-UUL-1998 (Rel. 36, Last sequence update)
28-FBB-2003 (Rel. 41, Last annotation update)
Beta-microseminoprotein precursor (Prostate secreted seminal plasma protein) (Prostate secretory protein PSP94) (PSP-94).
MSMB OR PSP94
                                                                                                                                                                                                                                                                                                                                                                          DISULFID DISULFID DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                Signal.
SIGNAL
CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
Spermatophyta; Magnoliophyta; (Caryophyllales; Amaranthaceae; NCBI_TaxID=3562;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MOUSE
                          Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
                                                    Spinacia oleracea (Spinach).
                                                                                                                                                                                                                                                                                                                                      SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Xuan J.W., Mbikay M., Wu D., Guo Y., Chin J.L.;
"Rapid evolution of PSP94 cDNA sequence in rodents.";
Submitted (MAR-1997) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STRAIN=CD-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         -
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pfam; PF05825; PSP94; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      interPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SIMILARITY: Belongs to the beta-microseminoprotein family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SUBCELLULAR LOCATION: Secreted.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FUNCTION: Inhibits the secretion of FSH by pituitary cells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            similarity)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MGI:97166;
                                                                                                                                                              SPIOL
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                                                                                                                                                                                                                               78
                                                                                                                                                                                                                                                       29
                                                                                                                                                                                                                                                                              . Similarity
6; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FROM N.A.
                                                                                                                                                                                                                                                       YDKDNC 34
                                                                                                                                                                                                                               YDKDNC 83
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                                                                                                                                                              STANDARD;
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                                                                                                                                                                                                                                                         9.4%; 50.
100.0%; Pred. No.
100.0%; Mismatches
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113
38
92
68
106
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Rodentia;
                                                                                                                                                                                                                                                                                                                                       12844 MW;
                                                                                                                                                                                                                                                                                                                                   POTENTIAL.
BETA-MICKOSEMINOPROTEIN.
BY SIMILARITY.
BY SIMILARITY.
OR 69 (BY SIMILARITY).
OR 68 (BY SIMILARITY).
OR 68 (BY SIMILARITY).
BY SIMILARITY.
BY SIMILARITY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Craniata; Vertebrata; Euteleostomi; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                              PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sperm surface (By similarity).
                                                                                                                                                              127
                                                                                                       update)
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                                                                                                                                                                                                                                                                                                            Length 113;
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RRR COCCORDED DOC
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HAMAP; MF_00382; -; 11.

InterPro; IPR005813; Ribosomal L20
InterPro; IPR005812; Ribosomal L20; 1.

Pfam; PF00453; Ribosomal L20; 1.

PRINTS; PR00062; RIBOSOMÁLL20.

PRODOM; PD002389; L20; 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Schmidt J., Herfurth E., Subramanian A.R.;

"Purification and characterization of seven chloroplast ribosomal proteins: evidence that organelle ribosomal protein genes are functional and that NH2-terminal processing occurs via multiple pathways in chloroplasts.";

Plant Wol. Biol. 20:459-465(1992).

-I- FUNCTION: This protein binds directly to 23s ribosomal RNA and is necessary for the in vitro assembly process of the 50s ribosomal subunit. It is not involved in the protein synthesizing functions of that subunit (By similarity).
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STRAIN=cv. Geant d'hiver, and cv. Monatol;
MEDLINE=21187424; PubMed=11292076;
Schmitz-Linneweber C., Maier R.M., Alcaraz
                                                                                                                  P02693;
21-JUL-1986 (Rel. 01, Created)
01-FEB-1996 (Rel. 33, Last sequence
10-OCT-2003 (Rel. 42, Last annotation fatty acid-binding protein, intestirently
                                                                                                                                                                                                 FABI
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SEQUENCE FROM N.A. MEDLINE=84119477; PubMed=6582489;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                           Eukaryota; Metazoa;
Mammalia; Eutheria;
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MEDLINE=93043036; PubMed=1421149;
                                          NCBI_TaxID=10116;
                                                                                        Rattus norvegicus (Rat)
                                                                                                         FABP2
                                                                                                                                                                                                                                                                                                                                                                                                                                            Ribosomal protein; rRNA-binding; Chloroplast
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PROSITE; PS00937; RIBOSOMAL_L20; 1
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Rodentia;
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intestinal (I-FABP)
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Sciurognathi; Muridae; Murinae; Rat
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Alpers D. "Cloning protein."
between the Swiss Institute of Bioinformat
the European Bioinformatics Institute. Thes
use by non-profit institutions as long a
modified and this statement is not removed.
entities requires a license agreement (See l
or send an email to license@isb-sib.ch).
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MEDLINE=92156174, PubMed=1740465;
Scapin G., Gordon J.I., Sacchettini J.C.;
"Refinement of the structure of recombinant acid-binding apoprotein at 1.2-A resolution.
"Biol. Chem. 267:4253-4269(1992).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDLINE=90046670; PubMed=2682622;
Sacchettini J.C., Gordon J.I., Banaszak L.J.;
"Refined apoprotein structure of rat intestinal fatty
protein produced in Escherichia coli.";
Proc. Natl. Acad. Sci. U.S.A. 86:7736-7740(1989).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=89362478; PubMed=2671390; Sacchettini J.C., Gordon J.I., Banaszak L.J.; Sacchettini J.C., Gordon J.I., Banaszak L.J.; "Crystal structure of rat intestinal fatty-acid-binding Refinement and analysis of the Escherichia coli-derived bound palmitate.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDLINE=88058967; PubMed=2824476;
Sweetser D.A., Birkenmaier E.H., Klisak I.J., Zollman S.,
Sparkes R.S., Mohandas T., Lusis A.J., Gordon U.I.;
"The human and rodent intestinal fatty acid binding protein genes. A
comparative analysis of their structure, expression, and linkage
                                                                                            This SWISS-PROT between the Swithe European Bio
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ROPSON I.J., Yowler B.C., Dalessio P.M., Banaszak L., Thompson J.;
"Properties and crystal structure of a beta-barrel folding mutant.";
Biophys. J. 78:1551-1560(2000).
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MEDLINE=97178830; PubMed=9063893;
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Lowe J.B.;
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                                                                                                               entry is copyright. It is produiss Institute of Bioinformatics
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CONFLICT 82 82 W -> L (IN REF. 1).

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Copyright (c) 1993 - 2004 Compugen Ltd.
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US-09-252-991A-23445
US-09-253-274-10
US-08-407-875-2
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US-09-101-272G-65	US-08-293-150A-31	US-07-791-213D-31	US-09-101-272G-66	US-08-154-712B-24	US-08-481-968A-24	US-08-293-150A-32	US-07-791-213D-32	US-09-101-272G-67	US-08-293-150A-33	US-07-791-213D-33	-09-101-272G-6	US-08-293-150A-34	US-07-791-213D-34	US-09-101-272G-69	US-08-293-150A-35	US-07-791-213D-35	US-09-101-272G-70
Sequence 6	Sequence 3	Sequence 3	Sequence 6	Sequence 2	Seguence 2		Sequence 3	Œ	Sequence 3	Sequence 3	Ø	Œ	Sequence 3	Sequence 6	Sequence 3	Sequence 3	Sequence 7
-	-	1, Appl		24, Appl	•	•	32, Appl	67, Appl	-	-	68, Appl	•	•	•	-	-	70, Appl

## ALIGNMENTS

RESULT 1 US-07-899-535A-1

Sequence 1, Appli Patent No. 542801

Application US/07899535A

GENERAL INFORMATION:

APPLICANT: Sheth, Anil R. APPLICANT: Garde, Seema APPLICANT: Panchal, Chand

CORRESPONDENCE

ADDRESS:

NUMBER OF SEQUENCES:

APPLICANT: Panchal, Chandra J.
TITLE OF INVENTION: Pharmaceutical Preparations For
TITLE OF INVENTION: Inhibiting Tumours Associated With Prostate
TITLE OF INVENTION: Adenocarcinoma, Stomach Cancer and Breast Cancer.

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COUNTIF: 2220

COMPUTER READABLE FORM:
MEDIUM TYEE: Floppy disk
MEDIUM TYEE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, Ve
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/899,535A
FILING DATE: 16-JUN-1992
CLASSIFICATION: 1514
ATTORNEY/AGENT INFORMATION:
NAME: Loud, George A.
REGISTRATION UNMBER: 25,814
REFERENCE/DOCKET NUMBER: S&B-A835
TELECOMUNICATION INFORMATION:
TELESPHONE: 703-415-0960
TELESTA: 703-415-0962
TELESPAN: 703-415-0962
TELESTA: 24 8614
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 94 amino acids
TYPE: amino acids
TYPE: amino acids
TYPE: amino acids
Ouery Match 100.0%; Score 45; DB 1;
Best Local Similarity 100.0%; Pred. No. 1.4e-40;
Matches 45; Conservative 0; Mismatches 0;
                                                                                    MOLECULE TYPE:
HYPOTHETICAL:
-07-899-535A-1
                                                                                                                                                      TOPOLOGY:
                                                                                                                                                                      STRANDEDNESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CITY: Arlington
STATE: Virginia
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                                                                                                                                                  ss: single
linear
                                                                                                    NO protein
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                                         Length 94;
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RESULT 2
US-07-899-535A-3
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                                                                                                                                                                                             US-08-460-309-17
                                                                                                                                                           Sequence 17, Patent No. 5
                                                                                                                                                                                                                                                                                                                                   Matches
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Best Local S
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                                                                                                                                              GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION NUMBER: US/07/899,535A
FILING DATE: 16-JUN-1992
CLASSIFICATION: 514
TTORNEY/AGENT
                                                                                                                                                                                                                                                                                                                                                                                                                    MOLECULE TYPE: HYPOTHETICAL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATTORNEY/AGENT INFORMATION:
NAME: Loud, George A.
REGISTRATION NUMBER: 25,814
REFERENCE/DOCKET NUMBER: S&B-A835
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Panchal, Chandra J.
TITLE OF INVENTION: Pharmaceut
TITLE OF INVENTION: Inhibiting
TITLE OF INVENTION: Adenocarci
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS:
                                                        TITLE OF INVENTION: Nucleic Acids Encoding Merosin, Merosin TITLE OF INVENTION: Fragments and Uses Thereof NUMBER OF SEQUENCES: 23
                                                                                                          APPLICANT: Engvall, Eva APPLICANT: Leivo, Ilmo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELECOMMUNICATION INFORMATION: TELEPHONE: 703-415-0960
                                         CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEFAX: /-
TELEFAX: 24 8614
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CITY: Arlington
                                                                                                                                                                                                                                                                                                                                                                                                                                                      TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ENGTH:
                         DDRESSEE:
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17; Conserv
                                                                                                                                                              7, Application US/08460309 
5837496
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    Campbell and Flores
    4370 La Jolla Village Drive,

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Garde, Seema
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          Suite 700
                                                                                                                                                                                                                                                                                                                                                                   Length 17;
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Best Local Similarity
Fatches 6; Conserve
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US-08-125-077-17
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Patent No. 5872231 5840863
                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 17,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEPAX: (619) 535-8949
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE: 30-JAN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 0
FILING DATE: 27-JUL-1992
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/460,309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/125,077
FILING DATE: 22-SEP-1993
                                             COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM FOCOMPATIBLE
COMPATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE: 21-SEP-1994
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: amino acid
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                                                                                                                                                                  STREET: 45.0
STREET: San Diego
CITY: San Diego
CTATE: California
                                                                                                                                                                                                                                                                                      APPLICANT: Engvall, Eva
APPLICANT: Leivo, Ilmo
TITLE OF INVENTION: Nucleic Acids
TITLE OF INVENTION: Fragments and
                                                                                                                                                                                                                                                     NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: US PCT/US 94/10730
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEPHONE:
                APPLICATION NUMBER: FILING DATE: 22-SE
                                                                                                                                                                                                                      ADDRESSEE: Campbell and Flores
STREET: 4370 La Jolla Village Drive, Suite 700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              103 NCETCT 108
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22-SEP-1993
N: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Cathryn A
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                                  US/08/125,077
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                                                                                                                                                                                                                                                                                           Encoding Merosin, Merosin Uses Thereof
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Length 241; Indels

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RESULT 6
US-09-107-532A-4860
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Best Local Similarity
Matches 6; Conserve
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US-09-489-039A-9744
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                                                                                                                                                    Sequence 4860, Application US/09107532A Patent No. 6583275
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                     Matches
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION NUMBER: US/09/489,039A CURRENT FILING DATE: 2000-01-27 PRIOR APPLICATION NUMBER: US 60/117,747 PRIOR FILING DATE: 1999-01-29 PRIOR FILING DATE: 1999-01-29 NUMBER OF SEQ ID NOS: 14342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANM: GATY BRECON et.al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 2709.2004001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 241 amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM: Klebsiella pneumoniae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LENGTH: 433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME: Campbell, Cathryn A. REGISTRATION NUMBER: 31,815 REFERENCE/DOCKET NUMBER: P-1TELECOMMUNICATION INFORMATION: TELEPHONE: (619) 535-9001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: 30-JAN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/919,951
FILING DATE: 27-JUL-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATTORNEY/AGENT INFORMATION:
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APPLICATION NUMBER:
FILING DATE: 21-SEP-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NO 9744
CORRESPONDENCE ADDRESS:
ADDRESSEE: GENOME THERAPEUTICS CORPORATION
STREET: 100 Beaver Street
                                                                                      APPLICANT: Lynn A Doucette-Stamm
TITLE OF INVENTION: NUCLEIC ACID
ENTEROCOCCUS
                                                                      NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   INFORMATION:
                                                                                                                                                                                                                                                                                                      264 KGNKHP 269
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100.0%; Pr
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100.0%; Pred. No. 56
tive 0; Mismatches
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%; Pred. No. 91;
0; Mismatches
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                                                                                      and David Bush
AND AMINO ACID SEQUENCES RELATING
FAECIUM FOR DIAGNOSTICS AND THERAF
                                                                                                                                                                                                                                                                                                                                                                                                         DB 4;
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                                                                                      AND THERAPEUTICS
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                                                                                                        US-09-134-000C-6535
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US-09-134-000C-6535
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                                                                                                                                                                                   PATENT NO. 6617156

GENERAL INFORMATION:
APPLICANT: Lyrn DOUCELE-Stamm et al
APPLICANT: Lyrn DOUCELE-Stamm et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 032796-032
CURRENT APPLICATION NUMBER: US/09/134,000C
CURRENT FILING DATE: 1998-08-13
PRIOR APPLICATION NUMBER: US 60/055,778
PRIOR APPLICATION NUMBER: US 60/055,778
PRIOR FILING DATE: 1997-08-15
NUMBER OF SEQ ID NOS: 6812
SOFTWARE: Patentin version 3.1
SEQ ID NO 6635
                      Query Match 13.3%; Score 6; DB 4; Best Local Similarity 100.0%; Pred. No. 94; Matches 6; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity
Matches 6; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 6535, Application US/09134000C Patent No. 6617156
                                                                                                                                               LENGTH: 454
TYPE: PRT
                                                                                                                           ORGANISM: Enterococcus faecalis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEPHONE: (781)893-5007
TELEPAX: (781)893-8277
INFORMATION FOR SEQ ID NO: 4860:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US/09/107,532A
FILING DATE: 30-Jun-1998
PRIOR APPLICATION NUMBER: 60/085,598
FILING DATE: 14 May 1998
APPLICATION NUMBER: 60/051571
FILING DATE: July 2, 1997
ATTORNEY/ACENT INFORMATION:
NAME: Ariniello, Pamela Deneke
REGISTRATION NUMBER: 40,489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MOLECULE TYPE: protein
HYPOTHETICAL: YES
ORIGINAL SOURCE:
ORGANISM: Enterococcus faecium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE/DOCKET NUMBER: GTC-012 TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: ASCII
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM: MEDIUM TYPE: CD/RO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         222 DLKGNK 227
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LENGTH: 454 amino acids TYPE: amino acid TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OPERATING SYSTEM: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STATE: Massachusetts
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100.0%; Pred. No. 94;
tive 0; Mismatches
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US-09-252-991A-19246
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                                                                                               RESULT 10
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Best Local S
Matches 6
                Sequence 23445, Application Patent No. 6551795
GENERAL INFORMATION:
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APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
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LENGTH: 503
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                                                                                                                                                                                                                                                                                                                                                                                                               FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
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TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: APRIGINOSA FOR DIAGNOSTICS AND THERAPPUTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILE REFERENCE:
APPLICANT:
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                                                                                                                                                                                                                                                                                                                                          ORGANISM: Pseudomonas aeruginosa
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6; Conserv
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Marc J. Rubenfield et
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 13.3%; Score 6; DB 'ilarity 100.0%; Pred. No. 98 Conservative 0; Mismatches
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                                                           US/09252991A
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No. 1e+02;
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0.98;
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US-09-252-991A-23445
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LENGTH: 509
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Best Local Similarity
                                                                                                                                                 Patent No.
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                                                                                                                                                             Sequence 2,
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CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION NUMBER: US/09/653,274
CURRENT FILING DATE: 2000-08-31
CURRENT APPLICATION NUMBER: 09/491,404
PRIOR FILING DATE: 2000-01-10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQ ID NOS:
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IITLE OF INVENTION: Methods and Maaterials Relating to Semaphorin-Like
IITLE OF INVENTION: Polypeptides and Polynucleotides
FILE REFERENCE: HYS-23
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             APPLICANT: Dagget, Lorrie
APPLICANT: Lu, Chin-Chun
TITLE OF INVENTION: HUMAN METABOTROPIC GLUTAMATE RECEPTOR
TITLE OF INVENTION: SUBTYPE mGLUR6, NUCLEIC ACIDS ENCODING SAME AND USES
TITLE OF INVENTION: THEREOF
NUMBER OF SEQUENCES: 4
                                                                                                         APPLICANT:
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                Local Similarity nes 6; Conserv
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                                                                                                                               INFORMATION:
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6635742
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                                                                                                                                                               Application US/08407875
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Liu, Chenghua
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Yeung, George Y
Arterburn, Matthew
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                                                                                                                                                                                                                                                              285
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100.0%; Pred. No. 1.
ative 0; Mismatches
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US-09-126-280-2
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Best Local Similarity 100

Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                  CURRENT APPLICATION NUMBER: US/09/126,280
CURRENT FILING DATE: 1998-07-30
NUMBER OF SEQ ID NOS: 24
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 2, Application US/09126280 Patent No. 6103524 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Best Local Similarity
                                                                                                                                                                                                                                          TYPE: PRT
ORGANISM: Human
-09-126-280-2
                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Wu, Su
APPLICANT: Belagaje, Rama M
APPLICANT: Belagaje, Rama M
TITLE OF INVENTION: Metabotropic Glutamate Receptor Protein and Nucleic
TITLE OF INVENTION: Acid
FILE REFERENCE: Sequence List
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 877 amino acids
                                                                                                                                                                                                                                                                                                    LENGTH: 877
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CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/407,875
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Reiter, Stephen E.
REGISTRATION NUMBER: 31,192
REFERENCE/DOCKET NUMBER: P41 9921
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TOPOLOGY: linear MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELECOMMUNICATION INFORMATION: TELEPHONE: 619-546-4737
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STREET: 444 South
CITY: Los Angeles
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                                                                              378 DSTRKC 383
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                                                                                                                                                         13.3%; Score 6; DB 3; Le
100.0%; Pred. No. 1.6e+02;
ive 0; Mismatches 0;
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                                                                                                              SOFTWARE:
SEQ ID NO 3
                                                                                                                                                                                                                                    GENERAL INFORMATION:
APPLICANT: KINURA, Toru
APPLICANT: KINURA, Toru
APPLICANT: KINURA, KAORU
TITLE OF INVENTION: NOVEL SEMAPHORIN GENE: SEMAPHORIN Y
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
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Best Local
                                                                                                                                  FILE REFERENCE: 0020-4527P
CURRENT APPLICATION NUMBER: US/09/254,594
CURRENT FILING DATE: 1999-05-11
NUMBER OF SEQ ID NOS: 13
SOFTWARE: Patentin version 3.0
FEATURE:
NAME/KEY: misc_feature
                                                   LENGTH: 929
TYPE: PRT
ORGANISM: Rattus norvegicus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEFAX: 619-546-9392
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
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Local Similarity 100.0%; 1
nes 6; Conservative 0;
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FILING DATE: «Unknown»
ATTORNEY/AGENT INFORMATION:
NAME: Relter, Stephen E.
REGISTRATION NUMBER: 31,192
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PEtentin Release #1.0,
CURRENT APPLICATION DATA:
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CORRESPONDENCE ADDRESS:
ADDRESSEE: Pretty, Schroeder, Brueggemann & Clark
STREET: 444 South Flower Street, Suite 2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION: HUMAN METABOTROPIC GLUTAMATE RECEPTOR
SUBTYPE mGLUR6, NUCLEIC ACIDS ENCODING SAME AND USES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELECOMMUNICATION INFORMATION: TELEPHONE: 619-546-4737
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Dagget, Lorrie
                                                                                                                                                                                                                                                                                                                                                                                                                                          378 DSTRKC 383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              13 DSTRKC 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE/DOCKET NUMBER: P41 9921
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US/09/277,858
FILING DATE: 26-Mar-1999
CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STATE: CA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CITY: Los Angeles
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ZIP: 90071
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ENGTH: 877 amino acids
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Matches Query Match

RESULT 14 US-09-277-858-2

Sequence 2, Application US/09277858 Patent No. 6362316

COCATION: ()..()
CHER INFORMATION: Tissue Type: Brain
NAME/KEY: misc\_feature

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10 VPGDST 15 |||||| 289 VPGDST 294

Search completed: March 11, 2004, 18:14:43 Job time : 16.2419 secs

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A; Molecule type: protein A;Residues: 21-112,'G',114 <sei> A;Residues: 21,'X',593-604, 1990 A;Title: Beta microseminoprotein is not a prostate-specific protein. A;Reference number: A60673; MUID:90379237; PMID:2205099 A;Accession: A60673 A;Molecule type: protein A;Residues: 21,'X',23-34 <wei> A;Residues: 21,'X',23-34 <wei> A;Experimental source: gastric juice B;Noler, S.; Mbikay, M.; Chretien, M. Biochim. Biophys. Acta 1089, 247-249, 1991 A;Title: Prostatic secretory protein PSP(94): gene organization and promoter sequence ir A;Reference number: S16237; MUID:91274357; PMID:2054385 A;Molecule type: DNA A;Molecule type: DNA</wei></wei></sei></sei></sei></sei></sei>	A;Residues: 1-114 < MBI> A;Cross-references: GB:M15885; NID:g338414; PIDN:AAA36635.1; PID:g338415 A;Cross-references: GB:M15885; NID:g338414; PIDN:AAA36635.1; PID:g338415 R;Akiyama, K.; Yoshioka, Y.; Schmid, K.; Offner, G.D.; Troxler, R.F.; Tsuda, R.; Hara, Pid:Chim. Biophys. Acta 829, 288-294, 1985 A;Title: The amino acid sequence of human beta-microseminoprotein. A;Reference number: A29777; MUID:85199974; PMID:3995056 A;Accession: A29777 A;Molecule type: protein A;Residues: 21-58, PT',61-113 <aki> R;Seidah, N.G.; Arbatti, N.J.; Rochemont, J.; Sheth, A.R.; Chretien, M. FEBS Lett. 175, 349-355, 1984 A;Title: Complete amino acid sequence of human seminal plasma beta-inhibin. Prediction of A;Reference number: A30984; MUID:85004133; PMID:6434350</aki>	A; Molecule type: DNA A; Residues: 1-114 <gre> A; Residues: 1-114 <gre> A; Cross-references: GB:M34376; NID:g514370; PIDN:AAA59871.1; PID:g514372 A; Cross-references: GB:M34376; NID:g514370; PIDN:AAA59871.1; PID:g514372 R; Mbikay, M.; Nolet, S.; Fournier, S.; Benjannet, S.; Chapdelaine, P.; Paradis, G.; Dubon 6; 23-29, 1987 DNA 6; 23-29, 1987 A; Title: Molecular cloning and sequence of the cDNA for a 94-amino-acid seminal plasma pla</gre></gre>	Holopinot	ALIGNMENTS	30 6 13.3 960 2 S54461  31 6 13.3 966 2 G69189  32 6 13.3 1070 2 T30848  33 6 13.3 1400 2 T24213  34 6 13.3 1295 2 A32901  35 6 13.3 1460 2 T19833  46 13.3 1496 2 T19833  37 6 13.3 1496 2 T19833  38 6 13.3 1496 2 T23617  39 6 13.3 3329 2 T23617  40 13.3 3329 2 T42205  40 13.3 3329 2 T4205  41 5 11.1 20 2 S00492  43 5 11.1 36 2 G80529  44 5 11.1 38 2 JN0613  45 11.1 38 2 JN0613

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#### ALIGNMENTS

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C;Keywords: sement
F;1-20/Domain: signal sequence
F;21-114/Product: seminal plasm
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A;Cross-references: EMBL:X57928; NID:g35760; PIDN:CAA41002.1; PID:g825707
A;Note: the authors translated the codon ACT for residue 54 as Trp
R;Liu, A.Y.; Bradner, R.C.; Vessella, R.L.
Cancer Lett. 74, 91-99, 1993
A;Title: Decreased expression of prostatic secretory protein PSP94 in prostate
A;Reference number: I52682; MUID:94115955; PMID:7506990
A;Accession: I52682
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Residues: 1-114 <RES>
A;Cross-references: GB:967815; NID:g460568; PIDN:AAB29732.1; PID:g460569
A;Cross-references: GB:967815; NID:g460568; PIDN:AAB29732.1; PID:g460569
C;Comment: This protein is a component of seminal plasma as well as secretory
                                                               A;Residues: 1-114 <NO2>
A;Cross-references: EMBI
A;Note: the authors trai
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A54663
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A,Molecule type: mRNA
A,Residues: 1-77 <XUA>
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R;Xuan, J.W.; Chin, J.L.; Guo, Y.;
submitted to the EMBL Data Library,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C;Species: Homo sapiens (man)
C;Date: 21-Dec:1996 #sequence_revision 06-Jun-1997 #text_change 20-Aug-1999
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A;Map position: 10q11.2-10q11.2
A;Introns: 1/3; 37/1; 72/2
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A; Accession: G01730
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                                                A; Molecule type: DNA
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Best Local (
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 erences: EMBL:X57932; NID:g38094; authors translated the codon ACT
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45; Conserv
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ilarity 100.0%;
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nal plasma protein
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ma protein #status experimental <MAT>
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, March 1995
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Pred. No. 4.1e-42;
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 PIDN:CAA41003.1; PID:g829152 for residue 54 as Trp
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Genomics 9, 775-777, 1991
A,Title: Rapid evolution of p
A;Reference number: A54663; M
A;Accession: A54663
A,Molecule type: mRNA
A,Residues: 1-114 <NOL>
                                                                                                                                                                      RyCole, S.T., Brosch, R.; Parkhill, J.; Garnier, T.; Churcher, C.; Harris, D.; Connor, R.; Davies, R.; Devlin, K.; Feltwell, T.; Gentles, S.; Hamlin, N.; Horandream, M.A.; Rogers, J.; Rutter, S.; Seeger, K.; Skelton, S.; Squares, S. Nature 393, 537-544, 1998
A; Authors: Sqares, R.; Sulston, J.E.; Taylor, K.; Whitehead, S.; Barrell, B.G. A; Fitle: Deciphering the biology of Mycobacterium tuberculosis from the complet A; Feferance number: A70500; MUID:98295987; PMID:9634230
A; Accession: D70806
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Nature 413, 848-852, 2001
A;Authors: Parry, C.; Quail, M.; Rutherford, K.; Simmonds, M.;
A;Title: Complete genome sequence of a multiple drug resistant
A;Reference number: AB0502; MUID:21534947; PMID:11677608
A;Accession: AF0776
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         probable fadD17 protein - Mycobacterium tuberculosis (strain H37RV)
C;Species: Mycobacterium tuberculosis
C;Date: 17-Jul-1998 #sequence_revision 17-Jul-1998 #text_change 18-Aug-2000
C;Accession: D70806
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C;Genetics:
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A; Residues: 1-93 < PAI
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                                                                                                                                    A;Status: preliminary; nucleic acid sequence not shown; translation
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                                                                       A;Residues: 1-502 <COL>
                                                                                                     A; Molecule type: DNA
Cross-references: GB:AL022022; GB:AL123456; NID:g3261554; PIDN:CAA17743.1; PID:g29244; Experimental source: strain H37Rv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                79
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ilarity 100.0%;
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100.0%;
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Davis, P.; Davies, R.M.; Dowd.
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6.4e-05;
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N.; Farrar
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thiol peroxidase (EC 1.11.1.-) [imported] - Lactococcus lactis subsp. lactis C;Species: Lactococcus lactis subsp. lactis C;Species: Lactococcus lactis subsp. lactis C;Date: 23-Mar-2001 #sequence_revision 23-Mar-2001 #text_change 03-Aug-2001 C;Accession: H86662 C;Accession: H86662 R;Bolotin, A.; Wincker, P.; Mauger, S.; Jaillon, O.; Malarme, K.; Weissenbach Genome Res. 11, 731-753, 2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                         R;Inoue, H.; Inagaki, K.; Sugimoto, M.; Esaki, N.; Soda, K.; Tanaka, H.
J. Biochem. 117, 1120-1125, 1995
A;Title: Structural analysis of the L-methionine gamma-lyase gene from Pseudomonas
A;Reference number: JC4174; MUID:96172583; PMID:8586629
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beta-microseminoprotein - pig
C;Species: Sus scrofa domestica (domestic pig)
C;Species: 1007 #samuence revision 19-Mar-1997
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S41663
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C;Superfamily: 4-coumarate-CoA ligase; acetate-CoA ligase homology
F;51-486/Domain: acetate-CoA ligase homology <ACL>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        hypothetical 105 protein - Pseudomonas putida (fragment)
C;Species: Pseudomonas putida
C;Species: 04-0ct-1995 #sequence_revision 10-Nov-1995 #text_change 20-Jun-2000
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                                                                                                                                                                                                                                                                                                                                  Cross-references: GB:D88554; DDBJ:D30039; NID:g1813427; PIDN:BAA13643.1; PID:g1813428; Comment: This protein shows homology with pyruvate dehydrogenase (lipoamide), and may superfamily: pyruvate dehydrogenase (lipoamide); byruvate dehydrogenase (lipoamide); thiamin pyrophosphate-binding domain
                                                                                                                                                                                                                                                                                                                                                                                          Residues: 1-105 <INO>
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Best Local .
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rch. Biochem. Biophys. 3
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Best Local
Res. 11, 731-753, 2002
e: The complete genome sequence
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100.0%; Pred. No.
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Pred. No.
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                                             K.; Weissenbach,
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                                                                           A; Map position:
A; Introns: 90/1
C; Superfamily: 1
                                                                                                                               A; Gene: NCSP: B23L21.320
                                                                                                                                                                                                A; Molecule type: DNA
A; Residues: 1-226 <SCH>
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A; Accession: T49719
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hes 6; Conserve
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C;Superfamily: thioredoxin peroxidase
C;Keywords: oxidoreductase
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A;Cross-references: EMB
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A;Accession: T41423
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C/Species: Schizosaccharcmyces pombe
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            Query Match
Best Local S
Matches 6
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            Similarity 6; Conserv
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          13.3%; Score 6; llarity 100.0%; Pred. No. Conservative 0; Mismatc
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A;Cross-references: EMBL:AL356172; GSPDB:GN00116; NCSP:B23L21.320 A;Experimental source: BAC clone B23L21; strain OR74A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              hypothetical protein B23L21.320 [imported] - Neurospora crassa C;Species: Neurospora crassa C;Species: Neurospora crassa C;Date: 02-Jun-2000 #sequence_revision 02-Jun-2000 #text_change
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C;Species: Schizosaccharomyces pombe
C;Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 03-Dec-1999
C;Accession: T41423
R;Wood, V.; Rajandream, M.A.; Barrell, B.G.; Murphy, L.; Harris, D. submitted to the EMBL Data Library, September 1998
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A;Cross-references: GB:AE005176; PID:g12723168;
A;Experimental source: strain IL1403
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                                                                            Neurospora crassa hypothetical protein B23L21.320
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Pred. No.
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-; cosmid c576
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DB 2;
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5. 26;
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                        Length 226;
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probable ribosomal protein L2 - Pyrococcus horikoshii C;Species: Pyrococcus horikoshii C;Species: Pyrococcus horikoshii C;Date: 14-Aug-1998 #sequence_revision 14-Aug-1998 #text_change 07-Jul-2003 C;Date: 14-Aug-1998 #sequence_revision 14-Aug-1998 #text_change 07-Jul-2003 C;Accession: D71187 C;Accession: D71187 R;Kawarabayasi, Y; Sawada, M.; Horikawa, H.; Haikawa, Y.; Hino, Y; Yamamot M.; Ohfuku, Y.; Funahashi, T.; Tanaka, T.; Kudoh, Y.; Yamazaki, J.; Kushida
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                                                                                                                                                                                                                                                                       A;Experimental source: strain C;Genetics:
A;Gene: lmo1638
                                                                                                                                                                                                                                                                                                      A;Residues: 1-324 <GLA>
A;Cross-references: GB:NC_003210; PIDN:CAC99716.1; PID:g16411074; GSPDB:GN00177
A:Exmerimental source: strain EGD-e
                                                                                                                                                                                                                                                                                                                                                                                                       Science 294, 849-852, 2001

A; Authors: Kreft, J.; Kuhn, M.; Kunst, F.; Kurapkat, G.; Madueno, E.; Ack, C.; Schlueter, T.; Simoes, N.; Tierrez, A.; Vazquez-Boland, J.A.; A;Title: Comparative genomics of Listeria species.

A;Reference number: AB1077; MUID:21537279; PMID:11679669

A;Accession: AF1279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           R;Glaser, P.; Frangeul, L.; Buchrieser, C.; Amend, .; Dominguez-Bernal, G.; Duchaud, E.; Durand, L.; D.; Jones, L.M.; Karst, U.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     C;Species: Listeria monocytogenes
C;Date: 27-Nov-2001 #sequence_revision 27-Nov-2001 #text_change
C;Accession: AF1279
C;Accession: AF1279
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C;Superfamily: ribosomal
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A;Note: this accession replaces an interim accession for a sequ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Status: preliminary; nucleic acid sequence not shown; translation
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A;Title: Complete sequence and gene organization of the genome A;Reference number: A71000; MUID:98344137; PMID:9679194
A;Accession: D71187
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RESULT 13
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nine-heme cytochrome c -
C; Species: Desulfovibrio
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Res. 5, 55-76, 1998
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    Desulfovibrio desulfuricans
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                        desulfuricans
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Dussurget, O.; Entian,
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tian, K.D.; |
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Voss, H.; Wehland,
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Fsihi, H.
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            A; Cross-references:
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RyTheologis, A.; Ecker, J.R.; Palm, C.J.; Federspiel, N.A.; Kaul, S.; White, O.; Chin, C.W.; Chung, M.K.; Conn, L.; Conway, A.B.; Conway, A.R.; Creasy, T.H.; Dew ansen, N.F.; Hughes, B.; Hulzar, L.
Nature 408, 816-820, 2000
A;Authors: Hunter, J.L.; Jenkins, J.; Johnson-Hopson, C.; Khan, S.; Khaykin, B.; C.A.; Li, J.H.; Li, Y.; Lin, S.X.; Liu, S.X.; Liu, Z.A.; Luros, J.S.; Maiti, R.; Ma Rizzo, M.; Rooney, T.; Rowley, D.; Sakano, H.
Rizzo, M.; Rooney, T.; Schwartz, J.R.; Shinn, P.; Southwick, A.M.; Sun, H.; T.
A;Authors: Salzberg, S.L.; Schwartz, J.R.; Shinn, P.; Southwick, A.M.; Sun, H.; T.
A;Authors: Salzberg, S.L.; Schwartz, J.R.; Shinn, P.; Southwick, A.M.; Sun, H.; T.
A;Reference and analysis of Chromosome 1 of the plant Arabidopsis.
A;Reference number: A86141; MUID:21016719; PMID:11130712
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A;Molecule type: DNA
A;Residues: 1-326 <SAR>
A;Cross-references: GB:AF186393; NID:g5924394; PIDN:AAD56586.1;
A;Cross-remember Bource: ATCC 27774
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         hypothetical protein T18124.3 [imported] - Arabidopsis thaliana C;Species: Arabidopsis thaliana (mouse-ear cress) C;Date: 02-Mar-2001 #sequence_revision 02-Mar-2001 #text_change C;Accession: D96614
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C;Keywords: electron transfer; heme; heme binding
                                                                                                                                                                                                      translation elongation factor eEF-1 alpha chain - Ashbya gossypii
C;Species: Ashbya gossypii
C;Date: 19-Mar-1997 #semmence revision of
                                                                                                                                                                                                                                                                          RESULT
S41593
                                                              Mol. Gen. Genet. 242, 263-271, 1994
A;Title: Sequence and promoter analysis of
A;Reference number: S41593; MUID:94150459;
A;Accession: S41593
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A;Map position: 1
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A; Residues: 1-405 <STO>
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                        A;Molecule type: DNA
A;Residues: 1-458 <STE>
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Matches 6
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les 6; Conserv
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                                                                                                                                     S.; Philippsen, P.
Genet. 242, 263-271,
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                                             DNA
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EMBL: X73978; NID: g456717; PIDN: CAA52157.1;
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C;Genetics:
A;Gene: TEF
C;Superfamily: translation elongation factor Tu; translation elongation factor Tu homold C;Keywords: GTP binding; methylated amino acid; nucleotide binding; P-loop; protein biosf;8-156/Domain: translation elongation factor Tu homology <ETUS
F;14-21/Region: nucleotide-binding motif A (P-loop)
F;153-156/Region: GTP-binding NKXD motif
F;30/Modified site: N6-methyllysine (Lys) #status predicted
F;79/Modified site: N6,N6-trimethyllysine (Lys) #status predicted
F;316/Modified site: N6,N6-dimethyllysine (Lys) #status predicted
F;330/Modified site: N6-methyllysine (Lys) #status predicted
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Search completed: March 11, 2004, 18:13:51 Job time: 14.3387 secs
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Copyright (c) 1993 - 2004 Compugen Ltd.
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MGR6_HUMAN
SM6C_HUMAN
SM6C_HUMAN
SM6C_MOUSE
SM6C_RAT
YXX6_YEAST
YYX6_YEAST
PVDR_PLAVS
GLP1_CAEEL
LMA2_HUMAN
BRC2_MOUSE
BCC2_MOUSE
BCC4_GNUSE
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YQ00_CLOPE
EMBP_MOUSE
RL2_PYRHO
SCOI_HUMAN
CYC9_DESDE
EF1A_ASHGO
EF1A_CANAL
MURD_LACPL
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P25142 macaca mula
Q28767 papio anubi
O97949 saguinus oe
O97936 saguinus oe
O97935 saguinus oe
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                        homo sapien
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cherax dest
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desulfovibr
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human adeno
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DEF4_LBIQH DEF1_AESCY IF1 TREPA DEF1_DERVA SP5G_BACME SP5G_BACSU RLJE_METTH YMKB_YEASIN GLBB_CERLA RL18_CERLA RL18_THETH CYC_EMENI
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leiurus qui aeschna cya treponema p dermacentor bacillus me bacillus su methanobact saccharomyc haemophilus cerebratulu thermus the emericella

#### ALIGNMENTS

99 (1993) .	
"Decreased expression of prostatic	
MEDLINE=94115955; PubMed=7506990; Liu A.Y. Bradner R.C. Vessella	
costate;	
SEQUENCE FROM N.A.	
diochem biochic Bes Commun 164.1310.1316/16	
ibin, and demonstrat	
"Molecular cloning of a small prostate protein, known as beta-	
Ulvsbaeck M., Lindstroem C.,	
MEDLINE=90073664; PubMed=259	
RP SEQUENCE FROM N.A.	
microseminoprotein gene.";	
"Cloning and nucleotide sequence	
MEDLINE=902	
fal	
sequence in rhesus monkey and human.";	
"Prostatic secreto	
Nolet S., Mbikay M., Chretie	
MEDLINE=9	
RP SEQUENCE FROM N.A.	
seminal plasma protein secreted by t	
"Molecular cloning and sequence of the cDNA for a 94-a	
Chretien M.;	
Paradis G., Dube J.Y., Tremblay R., Lazure C., Seidah N.G.,	
Mbikay M., Nolet S., Fournier S., Benjannet S.	
MEDLINE=87161231:	
NCBI	
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	
Eukaryota; Metazoa; Chordata; Craniata;	
<pre>MSMR OP prep MSMR OP p MSMR OP p</pre>	
protein) (Prostate secretory protein PSP94) (PSP-94) (Seminal	
Beta-microseminoprotein precursor (Prostate secreted	
DT 10-OCT-2003 (Rel. 42, Last annotation update)	
P08118; P11999; Q13125; Q9UC59	
MB_HUMAN STANDARD;	
MSMB HUMAN	
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TISSUE

SPECIFICITY

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RX MEDILE-2238257; PubMed=12477932;
RX Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Hopkins R.F., Jordan K., Farmer A.A., Rubin G.M., Hong L.,
RA Brownstein M.J., Usdin T.B., Joshiyuki S., Carninci P., Prange C.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Raha S.S., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
RA Generation and initial analysis of more than 15,000 full-length
human and mouse cDNA sequences.",
Proc. Natl. Acad. Sci. U.S.A. 99:16893-16903 (2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM W....
TISSUE=Prostate;
MEDLINE=96032566; PubMe
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Baijal-Gupta M., Clarke M.W.;
"Prostate specific protein (PSP94) expression
cell line (KLE).";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                "Alternative splicing of PSP94 (prostatic amino acids) mRNA in prostate tissue."; oncogene 11:1041-1047(1995).
Ohkubo I., Tada T., Oo "Human seminal plasma characterization, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE OF 2-72 FROM N.A. MEDLINE=99421644; PubMed=10491085;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Proc. Natl. Acad.
                                                                                                            MEDIINE=92028964; PubMed=1930232;
Liang Z.G., Kamada M., Koide S.S.;
"Structural identity of immunoglobulin binding fac
secretory protein of human seminal plasma.";
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                                                                                                                                                                                                                           Seidah N.G., Arbatti N.J., Rochemont J., "Complete amino acid sequence of human se Prediction of post Gln-Arg cleavage as a FEBS Lett. 175:349-355(1984).
                                                                                                                                                                                                                                                                                                                                                                          Akiyama K., Yoshio
Tsuda R., Hara M.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          beta-microseminoprotein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Maekinen
                                                                                                                                                                                                                                                                           MEDLINE=85004133; PubMed=6434350;
Seidah N.G., Arbatti N.J., Rochem
                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE=85199974;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Maekinen M., Valtonen-Andre C., Lundwall A.; "New world, but not old world, monkeys carry
                                                  MEDLINE=95401076;
                                                                 SEQUENCE OF 2
TISSUE=Semen;
                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE OF
                                                                                                                                                                                               SEQUENCE OF 21-50 AND 113-114
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                                                                                                                                                                                                                                                                                                                                                            amino acid sequence
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.99974; PubMed=3995056;
....hioka Y., Schmid K.,
                                                                               21-41,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PubMed=7566962;
.L., Guo Y., Chambers A.F.,
                                                                                                                                                                                                                                                                                                                                            Acta 829:288-294(1985)
                                                  PubMed=7671139;
                                                                                 AND
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Ochiai Y., Ueyama H., Eimoto T., Sasaki M.; ma beta-microseminoprotein: its purification, nd immunohistochemical localization.";
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                                                                                  TISSUE
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                                                                                  SPECIFICITY
                                                                                                                                                                                                                                                                                                                                                              beta-microseminoprotein.";
                                                                                                                                                                                                                                                                                                                                                                                              Offner
                                                                                                                                                                                                                                            ., Sheth A.R., Chretien M.; seminal plasma beta-inhibin. a maturation site.";
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use by non-profit institutions as long modified and this statement is not removed. entities requires a license agreement (See or send an email to license@isb-sib.ch).
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Pfam; Pr05825; PSP94; 1.
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EMBL; AJ133356;
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Proteomics 2:112-120(2002).
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SPERMATOZOA AND IN THE PROSTATE.
SIMILARITY: Belongs to the beta-microseminoprotein family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          IsoId=P08118-2; Sequence=VSP_003275; VSP_003276; TISSUE SPECIFICITY: Strongly expressed in prostate, liver, kid breast and penis. Also expressed in pancreas, esophagus, stome deodenum, colon, trachea, lung, salivary glands and fallopian tube. PSP94 is expressed in lung and breast, whereas PSP57 is found in kidney and bladder.
MISCELLANGOUS: SPECIFIC RECEPTORS FOR THIS PROTEIN ARE FOUND CREENERS, NEW THE CREENERS FOR THIS PROTEIN ARE FOUND CREENERS.
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SUBCELLULAR LOCATION: Secreted.
ALTERNATIVE PRODUCTS:
Event=Alternative splicing; Nam
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GO:0005615; C:extracellular
GO:0005634; C:nucleus; TAS.
erPro; IPR008735; PSP94.
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M34374;
M34375;
M34375;
M15885;
X57929;
X57930;
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AAA59871.1;
AAA36635.1;
CAA41002.1;
CAA41002.1;
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ins in human nasal lavage fluid from
using two-dimensional gel electrophoresis and
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-> MFLHLWVMTKTTAKESSRRRTASISWWRRRTQKRPVLS
VNG (in isoform PSP57).
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/FTId=VSP_003276.
L -> S (in dbSNP:1804776)
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I -> M (in dbSNP:1804778)
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(See http://www.isb-sib.ch/announce/
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MBL outstation -
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01-MAY-1992
01-MAY-1992
28-FEB-2003
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Nolet S., Mbikay M., Chretlen M.;
"Prostatic secretory protein PSP94: gene o
sequence in rhesus monkey and human.";
Biochim. Biophys. Acta 1089:247-249(1991).
                                                                                                                                                                              EMBL; X57932; CAA41003.1;
EMBL; X57933; CAA41003.1;
EMBL; X57934; CAA41003.1;
EMBL; X57935; CAA41003.1;
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28-FEB-2003 (Rel. 41, Last annotation update)
Beta-microseminoprotein precursor (Prostate s
                                                                                                                                                                                                                                       entities requires a license agreement (S or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                      This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the St the European Bioinformatics Institute. There are no restues by non-profit institutions as long as its content
                                                                                                                                                                                                                                                                                                                                                                            Nolet S., St Louis D., Mbikay M., Chretien M.; "Rapid evolution of prostatic protein PSP94 suggested divergence between rhesus monkey and human cDNAs."; Genomics 9:775-777(1991).
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Mammalia; Eutheria; Primates; Catarrhini; Cercopithecidae;
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rPro; IPR008735; PSP94.
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MSPJ\_SAGOE 097949;

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Xuan J.W., Wu D.,
Chin J.L.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Cercopithecinae;
NCBI_TaxID=9555;
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eutele
Mammalia; Eutheria; Primates; Catarrhini; Cercopithecidae;
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01-NOV-1997 (Rel.
28-FEB-2003 (Rel.
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Mammalia; Eutheria; Primates; Platyrrhini; Callitrichidae; Saguinus.
                                                                               MEDLINE=99421644; PubMed=10491085;
MEDLINE=99421644; PubMed=10491085;
Mackinen M., Valtonen-Andre C., Lundwall A.;
"New world, but not old world, monkeys carry
beta-microseminoprotein.";
Deta-ficroseminoprotein.";
                                                                                                                                                                                                                                                                                                               Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                          Saguinus oedipus (Cotton-top tamarin)
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Eur. J. Biochem. 264:407-414(1999)
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                             J. Biochem. 264:407-41 FUNCTION: Inhibits the
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                                                                 264:407-414(1999)
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BETA-MICROSEMINOPROTEIN J

BY SIMILARITY.

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Pred. No
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EMBL; AJ010159; CAB38124.1; JOIN
GO; GO:005576; C:extracellular;
InterPro; IPR002400; GF cysknot.
InterPro; IPR008735; PSP94.
                                                          use by non-profit institutions as long modified and this statement is not removed. entities requires a license agreement (See or send an email to license@isb-sib.ch).
                                                                                                                       This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way
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Maekinen M., Valtonen-Andre C., Lundwal
"New world, but not old world, monkeys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Saguinus oedipus (Cotton-top tamarin).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Platyrrhini; Callitrichidae; Saguin
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Mammalia; Eutheria;
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                    EMBL; AJ010154;
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                                                                                                                                                                                                                                                                                                                                       beta-microseminoprotein."
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    C:extracellular;
                      CAB38105.1;
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01-FEB-1996 (Rel. 33, Last annot
33 kDa phosphoprotein.
Human adenovirus type 40.
Virusee; dsDNA viruses, no RNA s
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDLINE=94087748; PubMed=8263936; Davison A.J., Telford E.A., Watson M.S., "The DNA sequence of adenovirus type 40."
J. Mol. Biol. 234:1308-1316(1993).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADE40
                                                                                                                                                                          Late protein;
SEQUENCE 211
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01-OCT-1989
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annotation update)
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RESULT 8
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Hypothétical

update)

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AC Q8XH85;
DT 10-OCT-2003
DT 10-OCT-2003
DT 10-OCT-2003
DE Hypothetical
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28-FEB-2003 (Rel.
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                                                                                                                                                                                                                                                                                                                                                                    Signal;
                                                                                                                                                                                                                                                                                                                                                                                                                                                  This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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InterPro; IPR008735; PSP94.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         similarity).
-!- SUBCELLULAR LOCATION:
-!- TISSUE SPECIFICITY: CC
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MEDLINE=96117078; PubMed=8562060;
Tanaka T., Itahana K., Andoh N., T
Tanaka T., Itahana K., Ecceptation of prostatic secretory
porcine corpus luteum: isolation of protein.";
encoding PSF94-like protein.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-NOV-1997 (Rel. 35, Created)
01-NOV-1997 (Rel. 35, Last sequence update)
28-FBB-2003 (Rel. 41, Last annotation update)
Beta-microseminoprotein precursor (Prostate secreted protein) (Prostate secreted protein)
                                                                                                                                                                                                                                                                                                                                                                                              Pfam; PF05825;
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Mammalia; Eutheria;
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MSMB OR PSP94
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  plasma."
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Biochem. Biophys. 309:70-76(1994). Inhibits the secretion of FSH by
                                                                                                                                           22 CYFIPN
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                                                                                                                                                                                               6; Conserv
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ilarity 100.0%
Conservative
  (Rel. 42, Created)
(Rel. 42, Last sequence update)
(Rel. 42, Last annotation updat-
UPF0247 protein CPE2600.
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22 35
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11246 MW;
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                                                                       STANDARD;
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                                                                                                                                                                                                                                                                                                                                                                                 carboxylic acid.
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0%;
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secretory protein (PSP)-like
solation and characterization
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ORPORA LUTEA, MOSTLY IN THE LUTEAL CELLS
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ABF33A067A23765E CRC64;
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Sus.
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of a new
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RESULT 10
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STRAIN=13 / Type A;
MEDLINE=21664373; PubMed=11792842;
Midding T., Ohtani K., Hirakawa H., Ohshi
Shiba T., Ogasawara N., Hattori M., Kuhar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/
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Clostridium perfringens.
Bacteeria; Firmicutes; Clostridia; Clostridiales; Clostridiaceae; Clostridium.
Clostridium.
NCBI_TaxID=1502;
                                                                                                                                                                                                                                                                                                                                              EMBP_MOUSE STANDARD; PRT; 223 AA. (61878; (261878; 15-DEC-1998 (Rel. 37, Created) 15-DEC-1998 (Rel. 37, Last sequence update) 28-FEB-2003 (Rel. 41, Last annotation update) Eosinophil granule major basic protein precursor (MBP)
This
                                                  "The identification and cloning of a murine major basic protein ge expressed in ecsinophils.";
J. Immunol. 155:302-3012 (1995).
-:- FUNCTION: Cytotoxin and helminthotoxin. MBP also induces noncytolytic histamine release from basophils. It is involved antiparasitic defense mechanisms and immune hypersensitivity reactions (By similarity).
-:- SUBCELLULAR LOCATION: Matrix of eosinophil's large specific
                                                                                                                                                                                LIJ
SEQUENCE FROM N.A., AND PARTIAL SI
STRAIN=CBA/J; TISSUE=Liver;
MEDLINE=95403975; PubMed=7673718;
Larson K.A., Horton M.A., Madden
                                                                                                                                                                                                                                                                                                                                                                                                                                      MOUSE
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InterPro; IPR003742; DUF163.
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Mammalia; Eutheria;
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                                                                                                                                                                                                                                                                                                      Mus musculus (Mouse)
                                                                                                                                                                                                                                                                                                                    2, bone marrow).
PRG2 OR MBP-1.
                                                                                                                                                                        Lee J.J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             IGREAMS; TIGR00246; TIGR00246; 1.
iypothetical protein; Complete protein; Complete protein; 346
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           c. Natl. Acad. Sci. U.S.A. 99:996-1001(2002). SIMILARITY: Belongs to the UPF0247 family.
                        granule (crystalloid core) (By similarity). SIMILARITY: Contains 1 C-type lectin family
SWISS-PROT
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entry
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Rodentia;
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346C2C442A085378 CRC64;
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Kuhara S., J
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30-MAY-2000
30-MAY-2000
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                                                                                            This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RPL2P OR PH1775.
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InterPro; IPR002352; Emajor_basic.
InterPro; IPR001304; Lectin_C.
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HSSP; P13727;
  EMBL; AP0000007; BAA30891.1; PIR; D71187; D71187.
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Archaea; Euryarchaeota;
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SMART; SM00034; CLECT;
                                                                          or send
                                                                                                                                                                                                                                                                    DNA Res. 5:55-76(1998)...
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                                                                          an email to license@isb~sib.ch).
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RC TISSUE=Uterus;

RC TISSUE=Uterus;

RX MEDLINE=22388257; PubMed=12477932;

RX MEDLINE=22388257; PubMed=12477932;

RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

RA Strausberg R.L., Feingold E.A., Grouse L., Shemmen C.M., Schuler G.D.,

RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Heich F.,

RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

RA Stapleton M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

RA Bosak S.A., McEwan P.J., McKernan K.J., Abramson R.D., Mullahy S.J.,

RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Glibbs R.A.,

RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Glibbs R.A.,

RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Glibbs R.A.,

RA Fahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,

RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
                                     A FOR THE PROPERTIES OF THE PR
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InterPro; IPR008994; Nucleic acid OB.

InterPro; IPR008991; Transl L12.

InterPro; IPR008991; Transl SH3 like.

'Pfam; PF00181; Ribosomal L2; I.

Pfam; PF03947; Ribosomal L2; FALSE NEG.

R PROSITE; P5090467; RIBOSOMAL L2; FALSE NEG.

M Ribosomal protein; Complete proteome.

A Pfams P1394A; 26142 MW; 594B009C5AC6.
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075880;

30-MAY-2000

30-MAY-2000

10-OCT-2003
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Peng Y., Li Y., Tu Y., X
"A novel gene expressed
Submitted (SEP-1999) to
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Mammalia; Eutheria;
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SCO1 OR SCOD1.
Homo sapiens (Human)
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iranti V., Fernandez
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n human adrenal gland.";
he EMBL/GenBank/DDBJ databases.
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EMBL; AF026852; AAD08641.1; -
EMBL; AF295386; AAG33836.1; JC
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EMBL; AF295384; AAG23836.1; JC
EMBL; AF295384; AAG23836.1; JC
EMBL; AF295384; AAG29838.1; -
EMBL; AF183424; AAG09693.1; -
EMBL; AF1831816; AAD10051.1; -
Cenew, HGNC:10603; SCO1.
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Schnerch A., Son
                                                                                    GO; GO:0005739; C:mitochondrion; TAS.
GO; GO:0008739; P:cytochrome c oxidase biogenesis;
GO; GO:0006091; P:energy pathways; TAS.
InterPro; IRR003792; SCO1 SenC.
Pfam; PF02630; SCO1-SenC; 1.
Mitochondrion; Transit peptide; Copper; Chaperone;
                                                                                                                                                                                                                                                                                                                              This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial
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Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
                                                                        TRANSIT
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MEDLINE=20489854; PubMed=11013
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Shoubridge E.A.;
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Yu W., Gibbs R.A.;
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                            ER (POTENTIAL).
S (in dbSNP:1802083).
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       COX deficiency)
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16-OCT-2001
16-OCT-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                Matias P.M., Coelho R., Pereira I.A.C., Coelho A.V., Sieker L., LeGall J., Carrondo M.A.; Sieker L., LeGall J., Carrondo M.A.; "The primary and three-dimensional structures of a ni cytochrome c from Desulfovibrio desulfuricans ATCC 27 member of the Hmc family."; Structure 7:119-130(1999); Structure 7:119-130(1999); Structure 7:119-130(1999); Structure T:LECTRONS ARE TRANSFERRED TO THE CYTOPLASM WHICH ELECTRONS ARE TRANSFERRED TO THE CYTOPLASM
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                                                                                      This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation—the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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MEDLINE=99148120;
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Matias P.M., Saraiva
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Saraiva L.M., da Costa P.N., LeGall J.;
"Sequencing the gene encoding Desulfovibrio desulfuricans
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InterPro; IPR002345; CytC heme BS.
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PROSITE; P800190; CYTOCHROME C; 9.
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SEQUENCE FROM N.A.
STRAIN=ATCC 10895;
MEDLINE=94150459; PubMed=8
Steiner S., Philippsen P.;
                                                                                                                                                                                                                                                                                                                            BINDING
                                         Eukaryota; Fungi;
Saccharomycetales;
                                                                                                                                                                                                                                                                                                                                                                                   METAL
                                 NCBI_TaxID=33169;
                                              Ashbya gossypii (Yeast) (Eremo
Eukaryota; Fungi; Ascomycota;
                                                                   Elongation
                                                                                                                                                                                            SEQUENCE
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                                                                  5 (Rel. 32, Created)
5 (Rel. 32, Last sequence up
3 (Rel. 42, Last annotation
factor 1-alpha (EF-1-alpha)
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       PubMed=8107673;
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                                         Saccharomycetaceae; Eremothecium.
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Heme; Periplasmic; Signal; Repeat; 3D-structure.
                                                                                                                                                                        13.3%;
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                                                (Eremothecium gossypii). ycota; Saccharomycotina;
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Pred. No
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IRON (HEME 9 AXIAL
2ED7025ADDF250E3
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4 (HEME 1 AXIAL LIGAND).

4 (HEME 3 AXIAL LIGAND).

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6 1 (COVALENT).
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Matches 6
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InterPro; IPR000795; EF Grbbind.
InterPro; IPR004160; EFTU Dterm.
InterPro; IPR004161; EFTU D2.
InterPro; IPR009001; Elong_init_C.
InterPro; IPR009000; Translat_factor.
Pfam; PF00144; GTP_EFTU_D2; 1.
Pfam; PF03144; GTP_EFTU_D2; 1.
                                                                                                                                                                                                                                                                               P16017;
P16017;
Ol-APR-1990 (Rel. 14, Created)
Ol-APR-1990 (Rel. 14, Last sequence update)
15-DEC-1998 (Rel. 37, Last annotation update)
Elongation factor 1-alpha (EF-1-alpha).
TEF1 AND TEF2.
TEF1 AND TEF2.
                                              SEQUENCE FROM N.A.

MEDLINE=90207725; PubMed=2180914;
Sundstrom P., Smith D., Sypherd P.S.;
Sundstrom P., Smith D., Sypherd P.S.;
"Sequence analysis and expression of the two factor 1 alpha from the dimorphic yeast Candi
J. Bacteriol. 172:2036-2045(1990).
-!- FUNCTION: This protein promotes the GTP-(-!- FUNCTION: TRNA to the A-site of ribosome)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NP_BIND
                                                                                                                                                                                                                                     Candida albicans (Yeast).
Eukaryota; Fungi; Ascomycota;
Saccharomycetales; mitosporic
NCBI_TaxID=5476;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      the European Bioinformatics Institute. There use by non-profit institutions as long as modified and this statement is not removed. Use entities requires a license agreement (See httor send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "Sequence and promoter analysis of the highly expressed TEF ge the filamentous fungus Ashbya gossypii.";

Nol. Gen. Genet. 242:263-271(1994).

-!- FUNCTION: This protein promotes the GTP-dependent binding aminoacyl-tRNA to the A-site of ribosomes during protein biosynthesis.

-!- SUMCELLULAR LOCATION: Cytoplasmic.
-!- SIMILARITY: Belongs to the GTP-binding elongation factor f EF-Tu/EF-1A subfamily.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                CANAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TIGRFAMS; TIGR00483; EF-1_alpha; 1. PROSITE; PS00301; EFACTOR GTP; 1. Elongation factor; Protein biosynth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE
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PIR; S41593; S41593.
HSSP; P07157; 1AIP.
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biosynthesis.
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SIMILARITY: B
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Belongs to the GTP-binding elongation factor family.
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GTP (BY SIMILARITY).
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Pfam; PF03144; GTP EFTU D2;
Pfam; PF03143; GTP EFTU D3;
Pfam; PF0315; ELONGAINFCT
                                                                                                                                                                                                                                                  InterPro, IPR004539; EFI alpha.
InterPro, IPR004795; EF GTPbind.
InterPro, IPR004166; EFTU Cterm.
InterPro, IPR004161; EFTU D2.
InterPro, IPR009001; Elong init C.
InterPro, IPR009000; Translat factor.
                                                                                                                                                                                                                                                                                                                                 EMBL; M29934; AAA34339.1; -..
EMBL; M29935; AAA34340.1; -.
PIR; A35154; A35154.
HSSP; P07157; 1A.P.
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                                                                                                                                                                             TIGREAMS; TIGRO0483; EF-1_alpha; 1. PROSITE; PS00301; EFACTOR_GTP; 1.
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TIGRFAMS; TIGR004
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US-07-899-535A-1
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Result No.

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-09	US-09-073-259-1	US-08-656-005A-1	US-09-073-354-1	-632	14-916A-	US-09-214-916A-2	US-09-210-288-10	7-826B-	US-08-568-459A-10	-09-252-991A-3	US-09-489-039A-7511	US-09-065-383-27	PCT-US93-05640-4	US-09-213-205-4	US-08-675-507-4	US-09-008-962-4	US-07-779-890-4
ence 1,	e 1,	e 1,	Sequence 1, Appli	equence 2,	e 4, Appl	e 2, Appl	, App	10,	e 10,	<b>o</b>	e 7511, A	e 27	Sequence 4, Appli	, Appl	•	Sequence 4, Appli	Sequence 4, Appli

### ALIGNMENTS

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; MOLECULE TYPE:
; HYPOTHETICAL:
US-07-899-535A-1
                                                                                                                                                                                                                                                                                 COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTMARBE: Patentin Release #1.0, Version #1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/899,535A
FILING DATE: 16-JUN-1992
CLASSIFICATION: 514
AITTORNEY/AGENT INFORMATION:
NAME: LOUD, GEOOTGE A.
REGISTRATION NUMBER: 25,814
REFERENCE/DOCKET NUMBER: S&B-A835
TELECHONEY: 703-415-0960
TELECHONE: 703-415-0960
Query Match
Best Local Similarity
Matches 64; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 1, Application US/07899535A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
APPLICANT: Sheth, Anil R.
APPLICANT: Garde, Seema
APPLICANT: Panchal, Chand
                                                                                                                                                                                                     TELEX: 24 8614
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Panchal, Chandra J.
TITLE OF INVENTION: Pharmaceutical Preparations For
TITLE OF INVENTION: Inhibiting Tumours Associated With
TITLE OF INVENTION: Adenocarcinoma, Stomach Cancer and
                                                                                                                                                                                                                                                 TELEPHONE: 703-415-0962
                                                                                                                                    TOPOLOGY:
                                                                                                                                                STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COUNTRY: U.S.A.
ZIP: 22202
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CITY: Arlington
                                                                                                                                                                                       LENGTH:
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                                                                                                                                                                     amino acids
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100.0%; sinilarity 100.0%; sinilarity 100.0%; sinilarity 0;
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                                                                                            : protein
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Score 64; DB 1; I
Pred. No. 8.8e-63;
); Mismatches 0;
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                                  Length 94;
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Breast Cancer
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RESULT 2
US-07-899-535A-4
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                                                                                                                                 RESULT 3
US-07-899-535A-2
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Best Local S
Matches 26
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Patent No.
                                                                                              Sequence 2, Application US/07899535A Patent No. 5428011
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE: 16-JUN-1992
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: LOUD, GEORGE A.
REGISTRATION NUMBER: 25,814
REFERENCE/DOCKET NUMBER: S&B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
                                                                                  GENERAL INFORMATION:
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TELEX: 24 8614
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
APPLICANT: Sheth, Anil R.
APPLICANT: Garde, Seema
APPLICANT: Panchal, Chandra J.
TITLE OF INVENTION: Pharmaceut
TITLE OF INVENTION: Inhibiting
                                                                                                                                                                                                                                                                                                                                                  MOLECULE TYPE:
HYPOTHETICAL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELECOMMUNICATION INFORMATION: TELEPHONE: 703-415-0960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CURRENT APPLICATION DATA:
APPLICATION NUMBER: US
FILING DATE: 16-JUN-19
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CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Panchal, Chandra J.
TITLE OF INVENTION: Pharmaceut.
TITLE OF INVENTION: Inhibiting
TITLE OF INVENTION: Adenocarcia
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APPLICANT: Garde,
APPLICANT: Pancha
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEPHONE: 703-415-0962
                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: amino acid
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Y: U.S.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pharmaceutical Preparations For Inhibiting Tumours Associated With Prostate Adenocarcinoma, Stomach Cancer and Breast Cancer.
Pharmaceutical Preparations For Inhibiting Tumours Associated With Prostate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Release #1.0, Version #1.25
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FILE REFERENCE: 16862PUS
CURRENT APPLICATION NUMBER: US/09/485,717
CURRENT FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: EP 97114614.7
PRIOR FILING DATE: 1997-08-22
PRIOR APPLICATION NUMBER: PCT/EP98-05109
PRIOR FILING DATE: 1998-08-12
NUMBER OF SEQ ID NOS: 2
SOFTMARE: Patentin Ver. 2.1
SEQ ID NO 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                            片
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                                                         , OTHER INFORMATION: Description of Artificial Sequence: recombinant US-09-485-717-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-07-899-535A-2
                                                                                                                                                                                                                                                                                                                                                                                                  US-09-485-717-2
                                                                                                                                                                                                                                                                                                                                                Sequence 2, Application US/09485717 Patent No. 6673353 GENERAL INFORMATION:
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 Matches
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                         Query Match
                                                                                                                                                                                                                                                                                                      APPLICANT: Kaufmann, APPLICANT: Hess, Jr TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEX: 24 8614
INFORMATION FOR SEQ ID NO:
                                                                                             TYPE: PRT ORGANISM: Artificial Sequence
                                                                                          FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ZIP: 2404
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE/DOCKET NUMBER: S& TELECOMMUNICATION INFORMATION: TELEPHONE: 703-415-0960
TELEPHX: 703-415-0962
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATTORNEY/AGENT INFORMATION:
NAME: Loud, George A.
REGISTRATION NUMBER: 25,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: Patentin Rel
CURRENT APPLICATION DATA:
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NUMBER OF SEQUENCES:
                                                                                                                                    ENGTH: 626
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HYPOTHETICAL:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local
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ZIP: 22202
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADDRESSEE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       56 TCSVSEW 62
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7; Conserv
Similarity 7; Conserv
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2001 Jefferson Davis Highway, Suite 306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
 Conservative
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)N: 514
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N: Tuberculosis Vaccine
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100.0%; Pred. No. 0.
tive 0; Mismatches
              10.9%;
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   0; Mismatches
                Score 7;
Pred. No.
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                 DB 4;
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                              Length 626
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RESULT 6
US-08-858-207A-428
; Sequence 428, Application US/08858207A
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                                                                                                                                         Query Match
Best Local Similarity
Matches 6; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Patent No.
                                                                                                                                                                                                                                                                                INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS.
LENGTH: 40 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: RUSSELL, (APPLICANT: STROUPE, E TITLE OF INVENTION: I TITLE OF INVENTION: INVENTION: NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/842,385
FILING DATE: 23-APR-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                            REFERENCE/DOCKET NUMBER: 60
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEPAX: 847/938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                 STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                       NAME: Becker, Cheryl
REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER: IBM CON
OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER:
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                                                                                                              48 VEKKOP 53
                                                                                4 VEKKDP 9
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6391543
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ROBERTS-RAPP, LISA
ROSERL, JOHN C.
STROUPE, STEPHEN D.
VENTION: FEAGENTS AND METHODS USEFUL
VENTION: FOR DETECTING DISEASES OF THE PROSTATE
SQUENCES: 33
                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BILLING-MEDEL, PATRICIA
COHEN, MAURICE
COLPITS, TRACEY L.
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S, STEVEN C.
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Pred. No
                                                                                                                                         Pred. No. 13;
Mismatches
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                                                                                                                                                                        Length 40;
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RESULT 7
US-09-252-991A-25178
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                                                                                                                              Sequence 25178, Application US/09252991A

Sequence 25178

Patent No. 6551795

GENERAL INFORMATION:

APPLICANT: MARC J. Rubenfield et al.

APPLICANT: MARC J. RUBENFIELD AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
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LENGTH: 104 amino acids
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APPLICATION DATA:
APPLICATION NUMBER: US/08/858 ^^-
FILING DATE: 09-MAY ...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TOPOLOGY: linear MOLECULE TYPE: No. 6348328e
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME: Gimmi, Edward R
REGISTRATION NUMBER: 38,891
REFERENCE/DOCKET NUMBER: P5
TELECOMMUNICATION INFORMATION:
TELEPHONE: 610-270-4478
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATTORNEY/AGENT INFORMATION: NAME: Gimmi, Edward Trans.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ZIP: 19406-0939
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CLASSIFICATION: 435
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Nicholas, Richard
APPLICANT: Stodola, Robert
TITLE OF INVENTION: No. 6348328el Compounds
NUMBER OF SEQUENCES: 552
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Black, Michael APPLICANT: Hodgson, John
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mes 6; Conserv
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ZIP: 19406-0939
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                                                                                                                                                                                                                                                                                                                                                                47 VGYDKD 52
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Knowles, David
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100.0%; Pred. No. 29;
1ve 0; Mismatches
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SEQ ID NO 25178 LENGTH: 114

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; ORGANISM: Pseudomonas aeruginosa US-09-252-991A-25178
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Best Local
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Patent No. 6376747
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Xing, Ti
APPLICANT: Malik, Kamal
APPLICANT: Martin-Heller, Teresa
APPLICANT: Mixi L., Brian
TITLE OF INVENTION: No. 6376747el Plant-Derived Map Kinase Kinase
FILE REFERENCE: 08-884280US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION NUMBER: US/09/384,162
CURRENT FILING DATE: 1999-08-27
NUMBER OF SEQ ID NOS: 24
                                                                                                                                                                                                                                                                                                                                                                                                                    ENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: PRT
ORGANISM: Drosophila melanogaster
                                                                                                                                                                                                                                                                                                                                                                                                                                   tent No.
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                                                                                                                         COMPUTER READABLE FORM:
MBDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                            CLASSIFICATION: 435
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                     CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION: Nucleic Ac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Local Similarity 100.0%; les 6; Conservative 0;
APPLICATION NUMBER: US 08/125,077
FILING DATE: 22-SEP-1993
APPLICATION NUMBER: US PCT/US 94/10730
FILING DATE: 21-SEP-1994
                                                                                                                                                                                                                                           COUNTRY:
                                                                                                                                                                                                                                                                                       STREET:
                                                                                                            APPLICATION NUMBER:
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                                                                                                                                                                                                                                                                         : San Diego
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                                                                                                                                                                                                                                                        California
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4370 La Jolla Village Drive, Suite 700
                                                                                                                                                                                                                                           USA
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100.0%; Pred. No.
                                               US 08/125,077
                                                                                                              US/08/460,309
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US-08-125-077-17
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Patent No. 5872231 5840863
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 17,
                                                PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/472,319
FILING DATE: 30-UAN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/919,951
FILING DATE: 27-UU-1992
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LA 9721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE CHARACTERISTICS:
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REFERENCE/DOCKET NUMBER: 0:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATTORNEY/AGENT INFORMATION: NAME: Campbell, Cathryn
                                                                                                                                                                                                                                                              FILING DATE: 22-SEP-
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IEM PC compatible
COMPUTER: IEM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
                                                                                                                                                                                                                                                                                                                                       SOFTWARE: PatentIn Rel
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE OF INVENTION: Nucleic Acids Encoding Merosin, Merosin
TITLE OF INVENTION: Fragments and Uses Thereof
NUMBER OF SEQUENCES: 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Engvall, Eva
APPLICANT: Leivo, Ilmo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: am:
TOPOLOGY:
                                                                                                                                                                                                                              FILING DATE:
                                                                                                                                                                                                                                               APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER:
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FILING DATE: 27-JU
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California
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4370 La Jolla Village Drive, Suite 700
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100.0%; Pred. No.
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                                               Query Match
Best Local Similarity
Matches 6; Conserv
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US-09-328-352-5693
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                                                                                                                                  ; ORGANISM: Acinetobacter baumannii
US-09-328-352-5693
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                                                                                                                                                                                 APPLICANT: Gary L. Breton et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: GTC99-03PA
CURRENT APPLICATION NUMBER: US/09/328,352
CURRENT FILING DATE: 1999-06-04
NUMBER OF SEQ ID NOS: 8252
SEQ ID NO 5693
LENGTH: 363
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: GARY BRETON

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING

TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS

FILE REPERBYCE: 2709.1002-001

CURRENT APPLICATION NUMBER: US/09/543,681A

CURRENT FILING DATE: 2000-04-05

PRIOR APPLICATION NUMBER: US 60/128,706

PRIOR APPLICATION NUMBER: US 60/128,706

PRIOR FILING DATE: 1999-04-09

NUMBER OF SEQ ID NOS: 8344

SEQ ID NO 6305
                                                                                                                                                                                                                                                                                                                                      Sequence 5693, Application US/09328352
Patent No. 6562958
GENERAL INFORMATION:
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Best Local Similarity 100.0%; F
Matches 6; Conservative 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LENGTH: 265
TYPE: PRT
ORGANISM: Proteus mirabilis
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9.4%;
Local Similarity 100.0%;
nes 6; Conservative
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                              36 RIFKKE 41
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                                                                               Score 6;
Pred. No.
                                                                 Mismatches
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                                                                               DB 4;
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                                                                                                Length 363;
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RESULT 14

US-09-593-653-21

Sequence 21, Application US/09593653
Patent No. 6610523
GENERAL INFORMATION:

APPLICANT: Davis, Roger J.

Whitmarsh, Alan
Tournier, Cathy
TITLE OF INVENTION: CYTOKINE-, STRESS-, AND ONCODROTEINACTIVATED HUMAN PROTEIN KINASE KINASES

COUNTRY: USA ZIP: 02110-2804 COMPUTER READABLE FORM:

STATE: MA CITY: Boston CORRESPONDENCE ADDRESS NUMBER OF SEQUENCES:

ADDRESSEE: Fish & Richardson P.C STREET: 225 Franklin Street

STREET:

RESULT 13

US-08-888-429A-21

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                                                                                                                                  US-08-888-429A-21
                                                                                                                                                                                    INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 393 amin
                                                              Query Match
Best Local Similarity
Matches 6; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 21, Application US/08888429A
                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: US/08/886,42
FILING DATE: 07-7UL-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/530,950
FILING DATE: 19-SEP-1995
APPLICATION NUMBER: 08/446,083
FILING DATE: 19-MAY-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                               ATTORNEY/AGENT INFORMATION:
NAME: FASSE, PETER J.
REGISTRATION NUMBER: 32,983
REFERENCE/DOCKET NUMBER: 07
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                              TOPOLOGY: li
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Tournier, Cathy
TITLE OF INVENTION: CYTOKINE-, STRESS-, AND ONCOPROTEIN-
TITLE OF INVENTION: ACTIVATED HUMAN PROTEIN KINASE KINASES
NUMBER OF SEQUENCES: 34
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSEQ for Windows Version
                                                                                                                                                                                                                                                                   TELEPHONE: 617/542-5070
TELEFAX: 617/542-8906
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COUNTRY: USA
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155 DCKYIV 160
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                                                                                                                                                                               amino acid
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Whitmarsh, A.
Tournier, Cathy
CYTOKINE-, S
TOURINE PROPERTY
                                                                                                                                                                                                393 amino acids
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225 Franklin Street
                                                                  Conservative
                                                                                                                                                                linear
                                                                                                                                              protein
                                                                              9.4%; Score 6; 1
100.0%; Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US/08/888,429A
                                                                                                                                                                                                                                  21:
                                                                ..
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                                                                  Mismatches
                                                                              DB 3;
                                                                                                Length 393;
                                                              0,
                                                            Gaps
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APPLICANT: Meyers, Rachel
APPLICANT: Cook, William James
APPLICANT: Cook, William James
TITLE OF INVENTION: 32142, 21481, 25964, 21686, NOVEL HUMAN DEHYDROGENASE
TITLE OF INVENTION: MOLECULES AND USES THEREFOR
FILE REFERENCE: MNI-134
CCURRENT FILING DATE: 2000-05-08
CTURRENT FILING DATE: 2000-05-08
PRIOR APPLICATION NUMBER: 60/192,002
PRIOR FILING DATE: 2000-05-24
NUMBER OF SEQ ID NOS: 35
SOFTWARE: FastSEQ for Windows Version 4.
SEQ ID NO 19
LENGTH: 425
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OFFILE THEOREMETION: 1-bera hodroxysteroid dehydrogenase domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOPOLOGY: linear;
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 21:
US-09-593-653-21
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                                                                                                                                                                            ; OTHER INFORMATION: 3-beta hydroxysteroid dehydrogenase domain US-09-634-955B-19
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US-09-634-955B-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ouery Match 9.4%; Score 6; DB 4; Best Local Similarity 100.0%; Pred. No. 93; Matches 6; Conservative 0; Mismatches
                                                                                    Query Match
Best Local Similarity
Matches 6; Conserv
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GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEX: 299354
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US/09/593,653
FILING DATE: 13-Jun-2000
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/888,429A
FILING DATE: 07-UL-1997
APPLICATION NUMBER: 08/530,950
FILING DATE: 19-SEP-1995
APPLICATION NUMBER: 08/46,083
PILING DATE: 19-MAY-1995
APPLICATION NUMBER: 08/46,083
PILING DATE: 19-MAY-1995
APPLICATION NUMBER: 08/46,083
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COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FRASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME: Fasse, Peter J.
REGISTRATION NUMBER: 32,983
REFERENCE/DOCKET NUMBER: 07917/053001
TELECOMMUNICATION IMPORMATION:
TELEPHONE: 617/542-5070
TELEFAX: 617/542-8906
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  84 ISCCTL 89
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                                                                                    9.4%; Score 6; DB 4; ilarity 100.0%; Pred. No. 1e+02; Conservative 0; Mismatches
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Search completed: March 11, 2004, 18:14:42 Job time : 21.6774 secs

GenCore version 5.1.6 Copyright (c) 1993 - 2004 Compugen Ltd.

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Minimum DB
Maximum DB
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Maximum Match 100%
Listing first 45 summaries
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Sequence:
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length: 2000000000
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1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*
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3 US-08-59-214-3

US-08-59-214-5

US-08-59-214-5

US-08-59-214-5

US-08-59-214-6

3 US-08-937-236-6

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3 US-08-169-214-2

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2 US-08-168-740A-7

US-09-168-740A-7

US-08-611-729A-6

US-08-611-729A-6

US-08-611-729A-6

US-09-214-278-7

US-09-214-278-7
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US-08-487-942-2
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US-07-899-535A-1
                                                         US-07-899-535A-1
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GENERAL INFORMATION:
         Query Match 100.0%; Score 268; DB 1; Best Local Similarity 100.0%; Pred. No. 2.3e-28; Matches 45; Conservative 0; Mismatches 0;
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45	44	43	42	41	40	39	38	37	36	ა 5	34	ယ ယ	32	31	30	29	28
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Ø	Sequence	Sequence	Sequence	Patent No.	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Seguence	Sequence
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App	Appl:	Appl:	Appl	155158	l, Appli	Appli		Appl	Appl	Appl	Appl	. Appl	Appl	Appl	Appl	Appli	Appli

#### ALIGNMENTS

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CIP: 22202

COMPUTER READABLE FORM:

MEDIUM TYPE: Flopy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.

CURRENT APPLICATION DATA;

APPLICATION NUMBER: US/07/899,535A

FILING DATE: 16-UN-1992

CLASSIFICATION: 514

ATTORNEY/AGENT INFORMATION:

NAME: LOUD, GBOTGE A.

REGISTRATION NUMBER: 25,814

REFERENCE/DOCKET NUMBER: 36B-A835

TELECOMMUNICATION INFORMATION:

TELEPHONE: 703-415-0962
                                                                                                                                                                                                             TELEPHONE: 703-415-0962
TELEFAX: 703-415-0962
TELEX: 24 8614
INFORMATION FOR SEQ ID NO:
                                                                                                                                          SEQUENCE CHARACTERISTICS:
LENGTH: 94 amino acids
TYPE: amino acid
                                                              MOLECULE TYPE: HYPOTHETICAL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Sheth, Anil R.
APPLICANT: Garde, Seema
APPLICANT: Panchal, Chandra J.
APPLICANT: Panchal, Chandra J.
TITLE OF INVENTION: Pharmaceutical Preparations For
TITLE OF INVENTION: Inhibiting Tumours Associated With Prostate
TITLE OF INVENTION: Adenocarcinoma, Stomach Cancer and Breast Ca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADDRESSEE: Mr. Ge
STREET: 2001 Jeff
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQUENCES:
                                                                                               TYPE: ung
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             E: Mr. George Loud
2001 Jefferson Davis Highway, Suite 306
                                                          .. protein
                                                                                                                          single
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Length 94;
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RESULT 3
US-08-726-525-2
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; HYPOTHETICAL:
US-07-899-535A-3
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US-07-899-535A-3
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                                                                                                                                                                               Sequence 2, Application US/08726525 Patent No. 5789181
                                                                                                                                                                                                                                                                                                                                                                   Matches
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                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
MEDIUM TYPE: Floppy disk
COMPUTER: LBM PC compatible
COMPUTER: PR PC compatible
OPERATING SYSTEM: PC-DOS/MG-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/899,535A
FILING DATE: 10-UN-1992
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEFAX: 703-415-0962
TELEX: 24 8614
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION: APPLICANT: Sheth,
                                                                                                                                                                GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Garde, Seema
APPLICANT: Panchal, Chandra J.
APPLICANT: Panchal, Chandra J.
TITLE OF INVENTION: Pharmaceut
TITLE OF INVENTION: Adenocarci
                                                                     APPLICANT: Lin, Lih-Ling
APPLICANT: Graham, James
TITLE OF INVENTION: NOVEL INTERLEUKIN-1 RECEPTOR
TITLE OF INVENTION: INTERCELLULAR LIGAND PROTEINS AND INHIBITORS OF LIGAND
TITLE OF INVENTION: BINDING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELECOMMUNICATION INFORMATION: TELEPHONE: 703-415-0960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS:
                                    CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQUENCES:
                                                       NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: amino acid TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME: Loud, George A.
REGISTRATION NUMBER: 25,814
REFERENCE/DOCKET NUMBER: S&
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH:
                   DDRESSEE
                                                                                                                                                                                                                                                                                                                                                                 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SSEE: Mr. George Loud
T: 2001 Jefferson Davis Highway, Suite 306
Arlington
: Virginia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      22202
                                                                                                                                                                                                                                                                                                                            SCYFIPNEGVPGDSTRK 17
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                                                                                                                                                                                                                                                                                           SCYFIPNEGVEGDSTRK 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           17 amino acids
87 CambridgePark Drive
                                                                                                                                                                                                                                                                                                                                                                   Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      NO peptide
                   LEGAL AFFAIRS, GENETICS INSTITUTE, INC
                                                                                                                                                                                                                                                                                                                                                           35.8%; >--
100.0%; Pr
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                                                                                                                                                                                                                                                                                                                                                                                  Score 96;
; Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              S&B-A835
                                                                                                                                                                                                                                                                                                                                                                   Mismatches
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2.3e-06;
0;
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RESULT 4
US-08-487-942-2
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; MOLECULE TYPE:
US-08-726-525-2
                                                                                                                                                                                                                                                                                                                                                                                         Sequence 2, Application US/08487942

Patent NO. 5817476

PARENT INFORMATION:
APPLICANT: Lin, Lih-Ling
APPLICANT: Graham, James
TITLE OF INVENTION: NOVEL INTERLEUKIN-1 RECEPTOR
TITLE OF INVENTION: INTERCELULAR LIGAND PROTEINS AND INHIBITORS OF LIGAND
TITLE OF INVENTION: BINDING
NUMBER OF SEQUENCES: 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local
                                                                                                                                        COMPUTER READMALE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, V.
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/487,942
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEPHONE: (617) 498-8224
TELEPAX: (617) 876-5551
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 176 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/487,94
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Brown, Scott A.
REGISTRATION NUMBER: 32,724
REFERENCE/DOCKET NUMBER: GISZ
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 498-8224
ATTORNEY/AGENT INFORMATION:
NAME: Brown, Scott A.
REGISTRATION NUMBER: 32,724
REFERENCE/DOCKET NUMBER: GI5:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 498-8224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOTTWARE: Patentin Release #1.0, Version #1.
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                            STATE:
                                                                                                         FILING DATE:
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                           STREET: 87 Camb
                                                                                                                                                                                                                                                                       COUNTRY: U.
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87 CambridgePark Drive
                                                                                                                                                                                                                                                                                            USA
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Pred. No. 0.0065;
5; Mismatches 1:
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                                      GI5258
                                                                                                                                                                                                                                                                                                                                                                GENETICS INSTITUTE, INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    12;
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RESULT 6
US-09-03-516-2
; Sequence 2, Application US/09083516
; Patent No. 6300086
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                                                                                                                                                                                                                             ; TOPOLOGY: linear; MOLECULE TYPE: protein US-08-726-036A-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; sequence 2, Application U
; Patent No. 5981482
; GENERAL INFORMATION:
APPLICANT: Lin, Lih-Li
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    В
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Matches
                                                                                                                                                                                            Query Match
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Best Local Similarity 41.4%;
Matches 12; Conservative
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                                                                                                                                                                                                                                                                                                                           TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 498-8224
TELEPAX: (617) 876-5851
INFORMATION FOR SEQ ID NO: 2:
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MEDIUM TYPE: Floppy disk
COMPUTER: ISM COMPATIBLE
COMPATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
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NFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                            ATTORNEY/AGENT INFORMATION:
NAME: Brown, SCOTE A.
REGISTRATION NUMBER: 32,724
REFERENCE/DOCKET NUMBER: GIF
                                                                                                                                                                                                                                                                                                             SEQUENCE CHARACTERISTICS:
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ITITLE OF INVENTION: NOVE
ITITLE OF INVENTION: INTRA
ITITLE OF INVENTION: BIND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COUNTRY: US
ZIP: 02140
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                                                                                              108 STTECVDAGGESHANNTKWKKDACTICEC 136
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                                                                                                                             14 STRKCMDLKGNKHPINSEWQTDNCETCTC 42
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                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                            amino acid
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                                                                                                                                                                                                                                                                                            176 amino acids
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                                                                                                                                                              Conservative
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                                                                                                                                                                            29.5%;
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                                                                                                                                                                            Score 79;
Pred. No.
                                                                                                                                                         Pred. No. 0.005; Mismatches
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Pred. No. 0.0065;
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                                                                                                                                                                                                DB 2;
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RESULT 7
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COUNTRY: Ush
COUNTRY: Ush
ZIF: 20006-1812
ZIF: 20006-1812
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
MEDIUM TYPE: Floppy disk
TYPER: IBM PC compatible
TYPEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                 Patent No. 6187310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                      APPLICANT: PETRI, WI
APPLICANT: DODSON, C
TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEFAX: (617) 876-58: INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME: Brown, Scott A.
REGISTRATION NUMBER: 32,724
REFERENCE/DOCKET NUMBER: GI
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 498-8224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TOPOLOGY: linear MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS:
LENGTH: 176 amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOTYWARE: PatentIn Release #1.0,
CURRENT APPLICATION DATA:
                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER
                                                                                                                                                                                                                                                                                                                               APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CLASSIFICATION:
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
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THILE OF INVENTION: NOVE
THILE OF INVENTION: INTR
                                                                                                                                                                                                                         TUMBER OF SEQUENCES:
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                                                                                                                                             STREET: 2000 PENICITY: WASHINGTON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Local Similarity
tes 12; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US/09/083,516 FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: FILING DATE:
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ZIP: 02140
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           108 STTECVDAGGESHANNTKWKKDACTICEC
                                                                                                                                                                                                                                                                                                                                                INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           14 STRKCMDLKGNKHPINSEWQTDNCETCTC
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                                                                                                                                                                  2000 PENNSYLVANIA AVENUE N.W., STE. 5500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       176 amino acids
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                                                                                                                                                                                                                                                                                           PETRI, WILLIAM A. DODSON, JAMES M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (617) 876-5851
(617) 876-5851
70 NO: 2:
                                                                                                                                                                                                                                                                                                                               MANN, BARBARA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         USA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              29.5%;
                                                                                                                                                                                                                                      RECOMBINANT ENTAMOEBA HISTOLYTICA LECTIN SUBUNIT PEPTIDES AND REAGANTS SPECIFIC FOR MEMBERS OF 170 KD SUBUNIT MULTIGENE FAMILY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NOVEL INTERLEUKIN-1 RECEPTOR
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Pred. No. 0.0065;
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Best Local S
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INFORMATION FOR SEQ ID NO: 3:
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ATTORNEY/AGENT INFORMATION:
NAME: LIVNAT, SHMUEL
REGISTRANTON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE CHARACTERISTICS:
LENGTH: 1276 amino acids
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PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/937,236
                                                                                                                                                    FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/569,214
FILING DATE: 16 SEPTEMBER 1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: PC-DOS/MS-DOS
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0,
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: MANN, BARBARA J.
APPLICANT: PETRI, WILLIAM A.
APPLICANT: DODSON, JAMES M.
TITLE OF INVENTION: RECOMBINANT ENTAMOBBA HISTOLYTICA LECTIN
TITLE OF INVENTION: SUBUNIT PEPTIDES AND REAGANTS SPECIFIC FOR MEMBERS OF THE
TITLE OF INVENTION: 170 KD SUBUNIT MULTIGENE FAMILY
NUMBER OF SEQUENCES: 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE/DOCKET NUMBER: 29
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-1500
TELEFAX: (202) 887-0763
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CORRESPONDENCE ADDRESS
                                                       NAME: LIVNAT, SHMUBL: 33,949
REGISTRATION NUMBER: 33,949
REFERENCE/DOCKET NUMBER: 291482000622
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-1500
                TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: amino acid
STRANDEDNESS: sir
                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY: USA
ZIP: 200006-1812
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CITY: WASHINGTON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADDRESSEE: MORRISON & FOERSTER
STREET: 2000 PENNSYLVANIA AVENUE N.W., STE. 5500
                                                                                                                                                                                                                                                                               APPLICATION NUMBER:
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Similarity 31.7%;
13; Conservative
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FOR SEQ ID NO:
                                        (202) 887-0763
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Pred. No. 2.6;
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RESULT 10
US-08-937-236-2
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Best Local Similarity 31:7%;
Matches 13; Conservative
                                                                                                                                               Query Match
Best Local S
Matches 13
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GENERAL INFORMATION:
                                                                                                                                                                                                                                                                           SEQUENCE CHARACTERISTICS:
LENGTH: 1291 amin Type:
                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US
APPLICATION NUMBER: 17-JUN-1994
FILING DATE: 11FORMATION:
NAME: MURASHIGE, KATE H.
REGISTRATION NUMBER: 29,95
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: MANN, BARBARA J.
APPLICANT: PETRI, WILLIAM A.
APPLICANT: PETRI, WILLIAM A.
APPLICANT: PETRI, WILLIAM A.
TITLE OF INVENTION: RECOMBINANT ENTANOEBA HISTOLYTICA LECTIN
TITLE OF INVENTION: SUBUNIT PEPTIDES AND REAGANTS SPECIFIC FOR MEMBERS OF THE
TITLE OF INVENTION: 170 KD SUBUNIT MULTIGENE FAMILY
NUMBER OF SEQUENCES: 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE CHARACTERISTICS:
LENGTH: 1277 amino acids
                                                                                                                                                                                                                                                                                                                                                                REFERENCE/DOCKET NUMBER: 9148-0006.21
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-1500
TELEFAX: (202) 887-0763
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CORRESPONDENCE ADDRESS
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STRANDEDNESS: sin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE:
CLASSIFICATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADDRESSEE: MORRISON & FOERSTER
STREET: 2000 PENNSYLVANIA AVENUE N.W., STE. 5500
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                                                                         1099 KÖVESKÖSDGKITHKWEIDTERSNANPKPRNPCETATCNOT 1139
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                                                                                                            17 KCMDLKGNKHPINSEWQTDN---
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linear
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linear
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                                                                                                                                                 6,
                                                                                                                                                                  Score 67; DB 3; Length 1291; Pred. No. 2.6;
                                                                                                                                                     Mismatches
                                                                                                                                                 10; Indels
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RESULT:11
US-08-569-214-5
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, MOLECULE TYPE: protein
US-08-937-236-2
                                                                                  ALERT NO. 6163-0.

ALERAL INFORMATION:
GENERAL INFORMATION:
BARBARA J.
APPLICANT: MANN, BARBARA J.
APPLICANT: PETRI, WILLIAM A.
APPLICANT: PETRI, WILLIAM A.
TITLE OF INVENTION: RECOMBINANT ENTAMOEBA HISTOLYTICA LECTIN
TITLE OF INVENTION: SUBUNIT PETTIDES AND REAGANTS SPECIFIC FOR MEMBERS OF
TITLE OF INVENTION: 170 KD SUBUNIT MULTIGENE FAMILY
                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ZIF: 20006-1812
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Replease #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION UNMBER: 08/569,214
FILING DATE: 16 SEPTEMBER 1997
ATTORNEY/AGENT INFORMATION:
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COUNTRY: USA
ZIP: 200006-1812
COMPUTER READABLE FORM:
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ADDRESSEE: MORRISON & FOERSTER
STREET: 2000 PENNSYLVANIA AVENUE N.W., STE. 5500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES:
                                                                STREET: 2000 PEN
CITY: WASHINGTON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TTLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION: 424
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NO. 6165469
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6187310
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31.7%;
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Pred. No.
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US-08-569-214-6
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Best Local Similarity
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME: MURASHIGE, KATE H.
REGISTRATION NUMBER: 29,959
REFERENCE/DOCKET NUMBER: 9148
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-1500
TELEFAX: (202) 887-0763
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          quence 6, Applic
                                                                                                                                                                                        MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                  COUNTRY: USA
ZIP: 200006-1812
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MOLECULE TYPE: protein
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LENGTH: 1292 amino aci
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APPLICATION NUMBER: PCT/
FILING DATE: 17-JUN-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0,
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/569,21
                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                 ADDRESSEE:
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COMPUTER: I
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Application US/08569214
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                                                                                                                                                                                                                                                                                                                                                                                                   WILLIAM A.

RECOMBINANT ENTAMOEBA HISTOLYTICA LECTIN

SUBUNIT PEPTIDES AND REAGANTS SPECIFIC FOR MEMBERS OF THE

HOUSE THE PAMILY
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Pred. No. 2.6;
6; Mismatches
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Best Local Similarity
                                                              Matches
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                                                                               Query Match
Best Local
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                             TELEX: 90-4030 INFORMATION FOR SEQ ID NO: 5:
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                                                                                                                                                                                            SEQUENCE CHARACTERISTICS:
LENGTH: 1292 amino acids
                                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/569,214
PILLING DATE: 16 SEPTEMBER 1997
ATTORNEY/ACENT INFORMATION:
NUMBE: 1-TUNAT SEMINIEL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: PETRI, WILLIAM A. APPLICANT: DODSON, JAMES M. TITLE OF INVENTION: RECOMBINE TITLE OF INVENTION: SUBUNIT E TITLE OF INVENTION: 170 KD SU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: MANN, BARBARA J
APPLICANT: PETRI, WILLIAM J
                                                                                                                                                                                                                                                                          REFERENCE/DOCKET NUMBER: 29
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: amino acid
STRANDEDNESS: sir
                                                                                                                                                                                                                                                TELEPHONE: (202) 887-0763
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COUNTRY: USA
ZIP: 200006-1812
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                                                                                                                                                                TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1099 KCVESKGSDGKITHKWEIDTERSNANPKPRNPCETATCNQT 1139
 1099 KCVESKGSDGKITHKWEIDTERSNANPKPRNPCETATCNQT 1139
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                               17 KCMDLKGNKHPINSEWQTDN-----
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                                                                                 Similarity
                                                                                                                                                                              amino acid
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SUBUNIT PEPTIDES AND REAGANTS SPECIFIC FOR MEMBERS OF THE
170 KD SUBUNIT MULTIGENE FAMILY
12
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Pred. No. 2.6;
6; Mismatches
                                                                 Score 67; DB
Pred. No. 2.6;
6; Mismatches
                                    -----CETCTCYET 45
                                                                                 DB 3; Length 1292; 2.6;
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RESULT 14
US-08-569-214-2
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US-08-276-967-2
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Patent No. 6165469
PATENT NO. 6105469
APPLICANT: MANN, BARBARA J.
APPLICANT: PETRI, WILLIAM A.
                                                                                                                                                                                       Sequence 2, Application Patent No. 5851817
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                       Matches
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION UNMBER: PCT/US94/06890
FILING DATE: 17-UUN-1994
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE: PatentIn Release #1.0, CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE:
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CORRESPONDENCE ADDRESS:
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TITLE OF INVENTION:
                                                                                            NUMBER OF SEQUENCES: 8
                                                                                                                          APPLICANT: Garbers, David
TITLE OF INVENTION: Specie
TITLE OF INVENTION: Sperm
                                                                                                                                                            APPLICANT:
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ZIP: 200006-1812
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REFERENCE/DOCKET NUMBER:
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                              STATE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME: MURASHIGE, KATE H
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADDRESSEE:
          COUNTRY:
                                                                             ADDRESSEE:
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13; Conserv
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                                              Houston
77210-4433
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                                                             P. O. Box 4433
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                                                                             Arnold, White & Durkee
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31.7%;
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SUBUNIT PEPTIDES AND REAGANTS SPECIFIC FOR MEMBERS OF THE
170 KD SUBUNIT MULTIGENE FAMILY
10
                                                                                                                                            Species-Specific Egg-Binding Proteins of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US/08/569,214
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Pred. No.
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COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
EURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/276,967
FILING DATE: Submitted Herewith
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Kitchell, Barbara S.
REGISTRATION NUMBER: UTSD:418\KIT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 713-787-1400
TELEPHONE: 713-787-1400
TELEPAX: 79-0924
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 2476 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
Search completed: March 11, 2004, 17:56:56
Job time : 16.9677 secs
                                                                                                                                                                                                          Query Match 25.0%; Score 67; DB 2; Length 2476; Best Local Similarity 40.7%; Pred. No. 5.7; Matches 11; Conservative 3; Mismatches 11; Indels
                                                                                                    1513 CTTQRGSYHPVGESWYTDNSCSRLCTC 1539
                                                                                                                                                      18 CMDLKGNKHPINSEWQTDN--CETCTC 42
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OM protein - protein search, using sw model

March 11, 2004, 17:50:06; Search time 22.7097 Seconds (without alignments) 145.491 Million cell updates/sec Run on:

US-09-977-406A-58

368 1 EWQTDNCETCTCYETEISCC......YIVVEKKDPKKTCSVSEWII 64 Title: Perfect score: Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

389414 segs, 51625971 residues Searched:

389414 Total number of hits satisfying chosen parameters:

Minimum DB seg length: 0 Maximum DB seg length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

/cgn2\_6/ptodata/2/iaa/5A\_COMB.pep:\*
/cgn2\_6/ptodata/2/iaa/5B\_COMB.pep:\*
/cgn2\_6/ptodata/2/iaa/6A\_COMB.pep:\*
/cgn2\_6/ptodata/2/iaa/6B\_COMB.pep:\*
/cgn2\_6/ptodata/2/iaa/PcTUS\_COMB.pep:\*
/cgn2\_6/ptodata/2/iaa/PcTUS\_COMB.pep:\* Issued\_Patents\_AA: Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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		df			SUMMARIES	
Result No.	Score	Query	Length	DB	ΠD	Description
П	· w		94	-1	-07-899	Sequence 1, Appli
7	4	•	28	Н	-07-899	4
m	₹.	•	4	7	-08-938	Sequence 4, Appli
4	4	17,5	941	Н	-08-3	7
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9	ď	17.0	3	S	r-0893	equence 1,
7	62.5	17.0	441		-08-985-5	'n
89	ď		443		-35	equence 8
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10	62	16.8	120	9	5447911-1	
11	62	•	306	4	-48	H
12	61	٠	119	Н	-08-468-347-	Ñ
13	19	16.6	119	Н	-226	Sequence 24, Appl
14	61	٠	119		-08-467-389-2	Ñ
12	61	٠	119		-08-779-379-2	equence 20
16	61	ġ.	119		-08-469-219	equence 2
17	61		119		-09-228-152-1	H
18	61	ġ.	136		S-08-560-098A-	nce 53
19	61	16.6	136	φ	5189019-6	٠.
	60	•	753		-08-942	2, Ag
	σ.		106		-09-543	equence 425
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	59		572		91-08177-1	1,
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	93	16.0	1172		-08-313-28	a)
	58.5		810		820-170A-3	34,

		34,	34,	34,	37,		37,	37,		37,	5132		٦,	Sequence 1, Appli	907	Patent No. 5180808	Sequence 9535, Ap
US-09-055-699-34	US-09-273-565-34	US-09-565-538-34	US-09-661-468-34	US-09-976-165-34	US-08-820-170A-37	US-09-055-699-37	US-09-273-565-37	US-09-565-538-37	US-09-661-468-37	US-09-976-165-37	US-09-621-976-5132	US-09-621-976-5130	US-08-911-319A-1	US-09-352-619-1	US-09-198-452A-907	5180808-2	US-09-489-039A-9535
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810	810	810	810	810	816	816	816	816	816	816	94	114	164	164	487	2409	140
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58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	28	28	28	28	58	58	57.5
28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

### ALIGNMENTS

```
APPLICANT: Sheth, Anil R.
APPLICANT: Sheth, Seema
APPLICANT: Garde, Seema
APPLICANT: Panchal, Chandra J.
TITLE OF INVENTION: Pharmaceutical Preparations For
TITLE OF INVENTION: Inhibiting Tumours Associated With Prostate
TITLE OF INVENTION: Adenocarcinoma, Stomach Cancer and Breast Cancer.
OWNER OF SECURNES: 4
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 94;
                                                                                                                                                                                                                                                                E: Mr. George Loud
2001 Jefferson Davis Highway, Suite 306
                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/899,535A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
100.0%; Score 368; DB 1;
Best Local Similarity 100.0%; Pred. No. 8.4e-35;
Matches 64; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         UMBER: US/07/899,535A
16-JUN-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     S&B-A835
                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM FC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                    Sequence 1, Application US/07899535A Patent No. 5428014 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE: 16-UN-1992
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Loud, George A.
REGISTRATION NUMBER: 25,814
REFERENCE/POCKET NUMBER: 8kB-
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-415-0960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEX: 24 8614
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 94 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEPHONE: 703-115-0962
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NO
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                                                                                                                                                                                                                                                                                                         Arlington
                                                                                                                                                                                                                                                                                                                            Virginia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                 22202
                                                                                                                                                                                                                                                           ADDRESSEE:
                                                                                                                                                                                                                                                                                                                        STATE: Vi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-07-899-535A-1
RESULT 1
US-07-899-535A-1
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225 Franklin Street
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
APPLICANT: Sheth, Anil R.
APPLICANT: Garde, Seema
APPLICANT: Garde, Seema
APPLICANT: Garde, Seema
APPLICANT: Garde, Seema
TITLE OF INVENTION: Inhibiting Tumours Associated With Prostate
TITLE OF INVENTION: Adenocatcinoma, Stomach Cancer and Breast Cancer.
NUMBER OF SEQUENCES: 4
CORRESSEE: Mr. George Loud
STREET: 2001 Jefferson Davis Highway, Suite 306
CITY: Arlington
STREET: 2001 Jefferson Davis Highway, Suite 306
CITY: Arlington
STREET: Ploppy disk
COMPUTER: IBM PC Compatible
OPERATION TYPE PROGRATION:
MAME: IS PLOTON DATA:
CURRENT APPLICATION DATA:
FILING DATE: 16-TUM-1992
CILASSIFICATION NUMBER: 25,814
ATTORISY/AGENT INFORMATION:
NAME: Loud, George A.
TELECOMMUTICATION NUMBER: 25,814
RESERRENCE/CONTUNICATION NUMBER: 35,814
RESERRENCE/CONTUNICATION NUMBER: 25,814
RESERRENCE/CONTUNICATION NUMBER: 35,814
RESERVENCE/CONTUNICATION NUMBER: 
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                                                    Gaps
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39.1%; Score 144; DB 1; L
Best Local Similarity 100.0%; Pred. No. 6.3e-10;
Matches 26; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      18-08-938-365-4
| Sequence 4, Application US/08938365
| Patent No. 588909
| Patent No. 588909
| Patent No. 5889090
| TITLE OF INVENTION: HUCHORDIN AND USES THEREOF
| TITLE OF SEQUENCES: 4
| CORRESPONDENCE ADDRESS:
| ADDRESSEE: Fish & Richardson P.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 IFKKEDCKYIVVEKKDPKKTCSVSEW 26
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                                                                                                                                                                                                                                                                                                                                           US-07-899-535A-4
; Sequence 4, Application US/07899535A
; Patent No. 5428011
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE: peptide HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 linear
                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
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EWII 94
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                                                                                                                                                                                                                                                                                                               RESULT 2
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105 WAPDYDRKCSVCSCQKRTVICDPIVCPPL----NCSQPVHLPDQCCPVCBBKKEMRE 757
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ouery Match
Best Local Similarity 25.9%; Pred. No. 31;
Matches 15; Conservative 11; Mismatches 23; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 2, Application US/08343760A; Sequence 2, Application US/08343760A; Patent No. 5679783; Patent No. 5679783; APPLICANT: Be Robertis, Edward MAPPLICANT: Sasal, Yoshiki TITLE OF INVENTION: Pactor and Composition NUMBER OF SEQUENCES: 3 CORRESPONDENCE ADDRESS: ADDRESSEE: ADDRESSEE: Release Majestic, Parsons, Siebert & Hsue STREET: Four Embarcadero Center, Suite 1450 cmann. Trans. San Francisco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Patentin Release #1.0, Version #1.25
                                                                                                                            COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows SOFTWARE:
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION NUMBER: US/08/938,365
FILING DATE: 26-SEP-1997
CLASSIFICATION: 514
PROOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                         FILING DATE:
THORNEY AGENT INFORMATION:
NAME: Meiklejohn, Ph.D., Anita L.
REGISTRATION NUMBER: 35,283
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/343,760A
FILING DATE: 22-NOV-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Siebert, J. Suzanne
REGISTRATION NUMBER: 28,758
REFERENCE/DOCKET NUMBER: 3100.
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE/DOCKET NUMBER: 09
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/542-5070
TELEFAX: 617/542-8906
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      : 940 amino acids amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEX: 20154
INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS: LENGTH: 940 amino acid
                                                           ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            / MOLECULE TYPE: protein US-08-938-365-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CA
Boston
                                             USA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JS-08-343-760A-2
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STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PCT-US93-01652-1
                                                                                                                                                                                                  STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CITY: V
STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              James A
CARRIER:DNA COMPLEXES CONTAINING DNA
ENCODING ANTI-ANGIOGENIC PEPTIDES AND THEIR USE IN GENE
THERAPY
                                                                                                                                                                                                                                                                                                                                 706 WAPDYDRKCSVCSCOKRTVICDPIVCPPL----NCSOPVHLPDOCCPVCERKKEMRE 758
                                                                                                                                                                                                                                                                                                          2 WQTD---NCETCTCYETEISCCTLVSTPVGYDKDNC-QRIFKKEDCKYIVVEKKDPKK 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
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                                                                                                                                                                                                                            DB 1; Length 941;
                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ZIP: 19899

COMPUTER READBLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/985,526.
                                                                                                                                                                                                                                                                   23;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION: CARRIER: DNA COMPLEXES CONTITLE OF INVENTION: CARRIER: DNA COMPLEXES CONTITLE OF INVENTION: THERAPY
NUMBER OF SEQUENCES: 43
CORRESPONDENCE ADDRESS:
ADDRESSEE: Connolly, Bove, Lodge, & Hutz
STREET: 1220 Market Street, P.O. Box 2207
CITY: Wilmington
STRIE: Delaware
COUNTRY: U.S.A.
                                                                                                                                                                                                                          Query Match
17.5%; Score 64.5; DB
Best Local Similarity 25.9%; Pred. No. 31;
Matches 15; Conservative 11; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
17.0%; Score 62.5; Di
Best Local Similarity 37.0%; Pred. No. 11;
Matches 10; Conservative 5; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 EWQTDNCETCTCYETEISCCTLVSTPV 27
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/608,845
FILING DATE: 16-UUL-1996
ATTORNEY/AGENT INFORMATION:
NAME: MCMORYOW Jr., RODERT G
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 6
PCT-US93-01652-1
Sequence 1, Application PC/TUS9301652
                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence I, Application US/08985526
Patent No. 6080728
GENERAL INFORMATION:
  (415) 363-5556
                   TELEFAX: (415) 362-5418
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (302) 658-9141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEFAX: (302) 658-5613
INFORMATION FOR SEQ ID NO: 1:
                                                                             LENGTH: 941 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          218 amino acids
amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE CHARACTERISTICS:
                                                                                                                                          TOPOLOGY: linear
HOLECULE TYPE: protein
US-08-343-760A-2
                                                                                                                      single
                                                                                                   TYPE: amino acid
STRANDEDNESS: siz
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            roPoloGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE:
CLASSIFICATION:
TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 5
US-08-985-526-1
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Gequence 3, Application US/08985526

J Sequence 3, Application US/08985526

GENERAL INFORMATION:
APPLICANT: Mixson, James A
TITLE OF INVENTION: CARRIER: DNA COMPLEXES CONTAINING DNA
TITLE OF INVENTION: ENCODING ANTI-ANGLOGENIC PEPTIDES AND THEIR USE IN GENE
TITLE OF INVENTION: THERAPY
NUMBER OF SEQUENCES: 43

CORRESPONDENCE ADDRESS:
ADDRESSEE: Compolly, Bove, Lodge, & Hutz
STREET: 1220 Market Street, P.O. Box 2207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 239;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                       NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
CORRESSEET Tilton, Fallon, Lungmus & Chestnut STREET: 100 South Wacker Drive, Suite 960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 5;
APPLICANT: Bouck, Note ...
APPLICANT: Polverini, Peter J.
APPLICANT: Good, Debrah J.
TITLE OF INVENTION: Method and Composition fraint of INVENTION: Inhibiting Anglogenesis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
17.0%; Score 62.5; E
Best Local Similarity 37.0%; Pred. No. 12;
Matches 10; Conservative 5; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CORRENT AFFLICATION DATA:

PELING DATE: 1993022
CLASSIFICATION NUMBER: FCT/US93/01652
RICH APPLICATION:
PRICE APPLICATION DATA:
APPLICATION NUMBER: US/07/841,656
FILING DATE: 24.FEB.1992
RICH APPLICATION DATA:
APPLICATION NUMBER: US/07/464,369
FILING DATE: 12-JAN-1990
ATTORNEY/AGENT INFORMATION:
NAME: FEHLY SAN SUBBRE: 31,327
REFERENCE/DOCKET NUMBER: 3207
TELECOMMUNICATION NUMBER: 31,327
REFERENCE/DOCKET NUMBER: 92005-PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: (312)-456-8000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 EWQTDNCETCTCYETEISCCTLVSTPV 27
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                                                                                                                                                                                                                                                                              STATE: Illinois
COUNTRY: USA
ZIP: 6060-4002
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IRM PC compatible
OMPRATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, Ve
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEFAX: (312)-456-7776
INFORMATION FOR SEQ ID NO: 1
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     : 239 amino acids
AMINO ACID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TOPOLOGY: unknown MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COUNTRY: U.S.A.
ZIP: 19899
COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                      Chicago
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Wilmington
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Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        7 CETCTC-YETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTC 57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 10
5447911-1
7 PATENT CARDIN, ALAN D.; SUNKARA, SAI P.
7 TILE OF INVENTION: GHILANTEN ANTIMETAGTATIC PRINCIPLE FROM
7 TILE OF INVENTION: GHILANTEN GHILIANII
NUMBER OF SEQUENCES: 4
CURRENT APPLICATION DATA:
7 SPELICATION NUMBER: US/08/224,096
FILING DATE: 06-APR-1994
PRIOR APPLICATION DATA:
7 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 6; Length 120;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16.8%; Score 62; DB 6; Length 120 ilarity 32.7%; Pred. No. 6.3; Conservative 6; Mismatches 21; Indels
                                                                                                                                                                                                                                              MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
COMPATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/313,288B
FILING DATE: January 5, 1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: CARREST TRYCRATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
17.0%; Score 62.5; DB 1;
Best Local Similarity 37.0%; Pred. No. 66;
Matches 10; Conservative 5; Mismatches 11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          330 EWTVDSCTECHC-QNSVTICKKVSCPI 355
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 EWQTDNCETCTCYETEISCCTLVSTPV 27
   Cooper & Dunham LLP
1185 Avenue of the Americas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME: White, John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 4002:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 278-0400
TELEFAX: (212) 391-0526
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: 975, 259
FILING DATE: 19-DEC-1991
APPLICATION NUMBER: 438, 365
FILING DATE: 14-DEC-1989
APPLICATION NUMBER: 368, 616
FILING DATE: 20-JUN-1989
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       INFORMATION FOR SEQ ID NO: 20: SEQUENCE CHARACTERISTICS:
LENGTH: 1170 amino acids
                                                                                                                                            COUNTRY: USA
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TOPOLOGY: linear
MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: amino acid
STRANDEDNESS: sir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity
Matches 17; Conserv
                                                                                                                     New York
                                                                              New York
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US-09-489-039A-11260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQ ID NO:1:
LENGTH: 120
       ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-08-313-288B-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5447911-1
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US-09-328-352-8124

US-09-328-352-8124

Paquence 8124, Application US/09328352

Patent No. 6562958

GENERAL INFORMATION:
APPLICANT: Gary L. Breton et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
TITLE FERENCE: GTC99-03PA

TITLE FERENCE: GTC99-03PA

CURRENT APPLICATION NUMBER: US/09/328,352

CURRENT FILING DATE: 1999-06-04

NUMBER OF SEQ ID NOS: 8252

LENGTH: 443

LENGTH: 443

TYPE: RAI
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
17.0%; Score 62.5; DB 3; Length 441;
Best Local Similarity 37.0%; Pred. No. 23;
Matches 10; Conservative 5; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 17.0%; Score 62.5; DB 4; Length 443; Best Local Similarity 27.7%; Pred. No. 23; Matches 18; Conservative 9; Mismatches 27; Indels 11:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 9
US-08-313-288B-20
Sequence 20, Application US/08313288B
Sequence 20, Application US/08313288B
GENERAL INFORMATION:
GENERAL INFORMATION:
TITLE OF INVENTION:
TITLE OF INVENTION:
UNDER OF SEQUENCES:
CORRESPONDENCE ADDRESS:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/985,526
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              253 EWTVDSCTECHC-QNSVTICKKVSCPI 278
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                                                                                                                                                                                                                                                                 CLASSIPICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/608,845
FILING DATE: 16-UUL-1996
ATTORNEY/AGENT INFORMATION:
NAME: MCMOSTOW JI,, Robert G
                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME: MCMOITOW Jr., Robert G
TELECOMMUNICATION INFORMATION:
TELEPHONE: (302) 658-9141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TOPOLOGY: linear US-08-985-526-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEFAX: (302) 658-5613
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ::
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Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Panet, Amus
Fischer, Meir
NVENTION: PRODUCTION OF RECOMBINANT FACTOR XA
NVENTION: INHIBITORS OF LEECH HIRUDO MEDICINALIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 61, DB 1, Length 119;
Pred. No. 8.2;
6; Mismatches 21; Indels
                                                                                                                                                                                            Length 119;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
COMPATER: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION UNBER: US/08/226,264
FILING DATE: 08-APR-94
CLASSIPICATION: 530
                                                                                                                                                                                            Score 61; DB 1;
Pred. No. 8.2;
6; Mismatches 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            : Cooper & Dunham LLP
1185 Avenue of the Americas
                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 24, Application US/08226264
Patent No. 5801017
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 4001
TELECOMUNICATION INFORMATION:
TELEPHONE: 212-278-0400
TELEPHONE: 212-391-0525
                                                                                                                                                                                            Query Match
Best Local Similarity 32.7%;
Matches 17; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Werber, Moshe M.
Zeelon, Elisha P
Levanon, Avigdor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 32.7%;
Matches 17; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Guy, Rachel
Goldlust, Arie
Rigbi, Meir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  : 119 amino acids
amino acid
                                           ANTI-SENSE: NO FRAGMENT TYPE: N-terminal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ANTI-SENSE: NO FRAGMENT TYPE: N-terminal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MOLECULE TYPE: protein HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION:
TITLE OF INVENTION:
NUMBER OF SEQUENCES:
                                                                                                      NAME/KEY: Protein
LOCATION: 1..119
US-08-468-347-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New York
: New York
RY: U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ZIP: 10036
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                        RESULT 13
US-08-226-264-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STREET:
                                                                                                                                                                                                                                                                                  ð
                                                                                                                                                                                                                                                                                                                         a
                                  APPLICANT: GALY Breton et. al
APPLICANT: GALY Breton et. al
APPLICANT: GALY Breton et. al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
TITLE OF INVENTION: NUCLEIC ACID AND THERAPEUTICS
FILE REFRENCE: 2709.2004001
CURRENT APPLICATION NUMBER: US/09/489,039A
CURRENT FILING DATE: 2000-01-27
PRIOR APPLICATION NUMBER: US 60/117,747
PRIOR APPLICATION NUMBER: 1999-01-29
NUMBER OF SEQ ID NOS: 14342
SEQ ID NO 11260
LENGTH: 306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     208 QWLTDNGSAYTAYETWRFARELNLEPCTTAVSSP--QSNGMAERFVKTMKED--YIAFMP 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 EWQTDNCETCTCYET----EIS---CCTLVSTPVGYDKDNCQRIFK--KEDCKYIVVEK 50
                                                                                                                                                                                                                                                                                                                                                                                                                                 14; Gaps
                                                                                                                                                                                                                                                                                                                                                                                    Score 62; DB 4; Length 306;
Pred. No. 17;
6; Mismatches 23; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-08-468-347-20
Sequence 20, Application US/08468347
Patent No. 5783421
GENERAL INFORMATION:
APPLICANT: Zeelon, Elisha P.
APPLICANT: Werber, Moshe M.
TITLE OF INVENTION: NOVEL POLYPEPTIDE HAVING FACTOR Xa
TITLE OF INVENTION: INHIBITORY ACTIVITY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER: IEM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/468,347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0317/43020-A/JPW/EAB
11260, Application US/09489039A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CLASSIFICATION: 435
CLASSIFICATION A35
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/225,442
FILING DATE: 08-APR-1994
ATTORNEY/ACENT INFORMATION:
NAME: White, John P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cooper & Dunham
STREET: 30 Rockefeller Plaza
CITY: New York
STATE: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME: White, John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 031
TELECOMMUNICATION:
TELEPHONE: 212-977-9550
                                                                                                                                                                                                                                                                                                                         ORGANISM: Klebsiella pneumoniae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CITY: New York
STATE: New York
ZIP: 10112
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity 34.8%;
Matches 23; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEFAX: 212-664-0525
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            single
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STRANDEDNESS: sir
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       264 KPDVRT 269
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              S1 KDPKKT 56
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    Seguence 11
Patent No.
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7 CETCIC-YETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTC 57
                                                                                  48 CEFCKCRLEPMKATCDISECPEGM---MCSRLTNKCDCKIDI----NCRKTC 92
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            7 CETCTC-YETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTC 57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               48 CEFCKCRLEPMKATCDISECPEGM---MCSRLTNKCDCKIDI----NCRKTC 92
                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT Merbelon, Elisha P.
APPLICANT Merber, Moshe M.
APPLICANT Levalon, Avigdon
TITLE OF INVENTION: NOVEL POLYPEPTIDE HAVING FACTOR XA
TITLE OF INVENTION: INHIBITORY ACTIVITY
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cooper & Dunham
STREET: 30 Rockefeller Plaza
CITY: New York
ZIPE: New York
ZIP: 10.112
COMPUTER: New York
ZIP: 10.112
COMPUTER: IBM PC compatible
OPERATIOS EXERTE: PC-DOS/MS-DOS
SUFFRATE: BEM PC Compatible
OPERATIOS SYSTEM: PC-DOS/MS-DOS
CONTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
FILING DATE:
FI
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16.6%; Score 61; DB 2; Length 119;
Best Local Similarity 32.7%; Pred. No. 8.2;
Matches 17; Conservative 6; Mismatches 21; Indels
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REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 0317/43020-A/JPW/EAB
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-977-9550
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION: 435
PRIOR APPLICATION DATA: 08/225,442
APPLICATION NUMBER: 08/225,442
FILING DATE: 08-APR-1994
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                         Sequence 20, Application US/08467389
Patent No. 5824641
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                INFORMATION FOR SEQ ID NO: 20: SEQUENCE CHARACTERISTICS: LENGTH: 119 amino acids TYPE: amino acid STRANDEDNES: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ANTI-SENSE: N-terminal
                                                                                                                                                                                                                                                                                                                                                                         Patent No. 5824641
GENERAL INFORMATION:
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; LOCATION:
US-08-467-389-20
                                                                                                                                                                                                                                RESULT 14
US-08-467-389-20
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Sequence 20, Application US/08779379
Patent No. 5858970
GENERAL INFORMATION.
APPLICANT: Zeelon, Elisha P.
APPLICANT: Werber, Moshe M.

US-08-779-379-20

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Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 61; DB 2; Length 119;
Pred. No. 8.2;
6; Mismatches 21; Indels
         Levanon, Avigdor
VENTION: NOVEL POLYPEPTIDE HAVING FACTOR XA
VENTION: INHIBITORY ACTIVITY
APPLICANT: Levanon, Avigdor
TITLE OF INVENTION: INVEL FOLYPEPTIDE HAVING FACTOR
TITLE OF INVENTION: INVEL FOLYPEPTIDE HAVING FACTOR
TITLE OF INVENTION: INHIBITORY ACTIVITY
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSE: COOPER & Dunham
STREET: 30 RCockefeller Plaza
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10112
COMPUTER READABLE FORM:
MEDIUM TYPE: FORM:
MEDIUM TYPE: FORM:
MEDIUM TYPE: FORM:
MEDIUM TYPE: POPPY disk
COMPUTER: BM PC COMPATIBLE
OFFRATION PROPERION:
PRIOR APPLICATION NUMBER: US/08/779,379
FILING DATE: 08-APR-1994
ATTORNEY/AGENT INFORMATION:
PRIOR APPLICATION NUMBER: 28,678
REGISTRATION NUMBER: 28,678
REGISTRATION NUMBER: 28,678
REBERENCE/DOCKET NUMBER: 28,678
REBERENCE/DOCKET NUMBER: 212-377-5550
TELERPAX: 212-664-0555
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Search completed: March 11, 2004, 17:56:55 Job time: 22.7097 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 32.7%;
Matches 17; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     119 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEFAX: 212-664-0525
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MOLECULE TYPE: protein HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ), NAME/KEY: Protein
; LOCATION: 1..119
US-08-779-379-20
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STRANDEDNESS: si
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**4007 07:74:60 71** 

TOM TTO

GenCore version 5.1.6 (c) 1993 - 2004 Compugen Ltd. Copyright

protein search, using sw model OM protein -

March 11, 2004, 17:45:11 ; Search time 74.8387 Seconds (without alignments) 241.627 Million cell updates/sec Run on:

US-09-977-406A-58

368 1 EWQTDNCETCTCYETEISCC......YIVVEKKDPKKTCSVSEWII Perfect score: Sequence:

64

BLOSUM62 Gapop 10.0 , Gapext Scoring table:

1586107 seqs, 282547505 residues Searched:

1586107 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

A Geneseq 29Jan04:\* Database

geneseqp2001s:\* geneseqp2002s:\* geneseqp2003as:\* geneseqp2003bs:\* geneseqp1980s:\* geneseqp1990s:\* geneseqp2000s:\* 8 7 6 5: Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

geneseqp2004s:\*

# CTTAMATE

	ption	Aao17965 Human pro	Human	227 Native	912	228 Recomb	3726	Aau28067 Novel hum	4574 Prosta	5447	Adb14453 Human pro	449 Human	Aao17964 Human pro	963 Human	7117 Comple	1962	Aao17961 Human pro	Aaol7960 Human pro	9 Нишап	Aao17958 Human pro	Aao17957 Human pro	6 Human	Aao17955 Human pro	Aaol7954 Human pro	Aao17953 Human pro	Aao17952 Human pro
SUMMARIES	CI.	A01796	AA017911	ABR56227	AA017912	ABR56228	AAG03726	AAU28067	457	ADB75447	ADB14453	AAB56449	AA017964	AA017963	AAR47117		AA017961	AA017960	AA017959	AA017958	95	g	AA017955	AA017954	AA017953	AA017952
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AAO17950 AAO17950 AAO17950 AAO17945 AAO17945 AAO17945 AAO17945 AAO17945 AAO17949 AAO17939 AAO17939 AAO17936 AAO17936 AAO17936	AA017933
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290 285 280 279 272 268 268 281 281 291 201 201 201 201	191
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## ALIGNMENTS

RESULT 1 AAO17965

AAO17965 standard; protein; 64 AA

AA017965;

(first entry) 30-AUG-2002 Human prostate secretory protein of 94 amino acids PSP94 analogue #54.

Cancer; human; PSP94; prostatic inhibin protein; PIP; HSPI; beta-MSP; beta-microseminoprotein; human seminal plasma inhibin; analogue; prostate secretory protein of 94 amino acids; prostatic adenocarcinoma; stomach cancer; breast cancer; endometrial cancer; ovarian cancer; benign prostate hyperplasia; cytostatic.

Homo sapiens.

WO200233090-A2.

25-APR-2002

15-OCT-2001; 2001WO-CA001463.

16-OCT-2000; 2000CA-02321256. 20-AUG-2001; 2001CA-02355334.

(PROC-) PROCYON BIOPHARMA INC.

Garde S, Panchal CJ, Baijal-Gupta M, Fraser J, Kadhim S;

WPI; 2002-471401/50.

New human prostate secretory protein of 94 amino acids, useful for inhibiting growth of e.g. tumor, prostatic adenocarcinoma, stomach, gastrointestinal, breast, endometrial, and ovarian cancers.

Claim 2; Page 93-94; 185pp; English.

The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PSP94, also known as prostatic inhibin peptide (PID), human seminal plasma inhibin (HSPI) and betamicroseminoprotein (bets-MSP). The analogues are useful for inhibiting growth of tumours, prostatic adenocarcinoma, stomach or gastrointestinal cancer, breast cancer, endometrial, ovarian or other cancers of epithelial secretion, or benign prostate hyperplasia and for treating patients with a disease characterized by elevated levels of FSH. The present sequence is an analogue of the invention 

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31 EWQIDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS 90
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Best Local Similarity
Matches 64; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                    Cancer; human; PSP94; prostatic inhibin protein; PIP; HSPI; beta-MSP; beta-microseminoprotein; human seminal plasma inhibin; analogue; prostates secretory protein of 34 amino acids; prostatic adenocarcinoma; stomach cancer; breast cancer; endometrial cancer; ovarian cancer; benign prostate hyperplasia; cytostatic.
                                                                                                                                           EWQTDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS
                                                                                                                  1 EWQTDNCETCTCYSTEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS
                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New human prostate secretory protein of 94 amino acids, useful inhibiting growth of e.g. tumor, prostatic adenocarcinoma, stom gastrointestinal, breast, endometrial, and ovarian cancers.
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                                                    Length 64;
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                                                    Score 368; DB 5;
Pred. No. 6e-33;
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100.0%; Pred. No. v. ...
0; Mismatches
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                                                                                                                                                                                                                                                                                                AA017911 standard; protein; 94 AA.
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20-AUG-2001; 2001CA-02355334.
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                                                                                    64; Conservative
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Matches 64; Conserv
                                                  Query Match
Best Local Similarity
Matches 64; Conserv
                                                                                                                                                                                EWII 64
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                          Sequence 64 AA;
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ID AAO
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1 EWOTDNCETCTCYBISCCTLVSTPVGYDKDNCORIFKKEDCKYIVVEKKDPKKTCSVS

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9
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                                                                                                                                                                                                                                                  Human, cytostatic; prostate secretory protein-94; PSP-94; hypercalcaemia of malignancy; carcinoma; prostate cancer; breast cancer; parathyroid hormone related peptide; PTHrP; skeletal metastasis.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Use of prostate secretory protein-94 for treating hypercalcemia of malignancy and reducing skeletal metastasis arising from carcinomas, prostate and breast cancers.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                             Native Human prostate secretory protein-94 (PSP-94).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   100.0%; Score 368; Dilarity 100.0%; Pred. No. 9.1 Conservative 0; Mismatches
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ABR56227 standard; protein; 94 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (PROC-) PROCYON BIOPHARMA INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      08-NOV-2001; 2001CA-02361736.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   08-NOV-2002; 2002WO-CA001737.
                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AA017912;
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AAO17912
ID AAO1
XX
AC AAO1
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Human prostate secretory protein of 94 amino acids PSP94 analogue #1.

Cancer; human; PSP94; prostatic inhibin protein; PIP; HSP1; beta-MSP; beta-microseminoprotein; human seminal plasma inhibin; analogue; prostate secretory protein of 94 amino acids; prostatic adenocarcinoma; stomach cancer; breast cancer; endometrial cancer; ovarian cancer; benign prostate hyperplasia; cytostatic.

Homo sapiens

WO200233090-A2

25-APR-2002

15-OCT-2001; 2001WO-CA001463.

16-OCT-2000; 2000CA-02321256. 20-AUG-2001; 2001CA-02355334.

(PROC-) PROCYON BIOPHARMA INC.

Fraser J, Panchal CJ, Baijal-Gupta M, WPI; 2002-471401/50. Garde S,

Kadhim

New human prostate secretory protein of 94 amino acids, useful for inhibiting growth of e.g. tumor, prostatic adenocarcinoma, stomach, gastrointestinal, breast, endometrial, and ovarian cancers.

Claim 2; Page 73-74; 185pp; English.

The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PSP94, also known as prostatic inhibin in peptide (PIP), human seminal plasma inhibin (HSPI) and beta-microseminoprotein (bets-MSP). The analogues are useful for inhibiting growth of tumours, prostatic adenocarcinoma, stomach or gastrointestinal cancer, breast cancer, endometrial, ovarian or other cancers of epithelial secretion, or benign prostate hyperplasia and for treating patients with a disease characterized by elevated levels of FSH. The present sequence is an analogue of the invention

Sequence 102 AA;

; 0 ch 100.0%; Score 368; DB 5; Length 102; I Similarity 100.0%; Pred. No. 1e-32; 64; Conservative 0; Mismatches 0; Indels 0 Best Local Similarity Matches 64; Conserv

EWQTDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS 98 1 EWQIDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS 39 ò 음

EWII 64 61

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EWI1 102

RESULT 5 ABR56228

ABR56228 standard; protein; 102

(first entry)

ABR56228;

Recombinate prostate secretory protein-94 (PSP-94).

Cytostatic; prostate secretory protein-94; PSP-94; hypercalcaemia of malignancy; carcinoma; prostate cancer; breast cancer; parathyroid hormone related peptide; PTHrP; skeletal metastasis.

The present invention relates to the use of prostate secretory protein-94 (PSP-94; the present sequence) for treating a patient suffering from hypercalcaemia of malignancy. PSP-94 is useful for treating a patient suffering from hypercalcaemia of malignancy arising from carcinomas, prostate and breast cancer. The PSP-94 is also useful for reducing parathyroid hormone related peptide (PTHrP) levels in a patient in need and reducing the development of skeletal metastasis. The PSP-94 is also used for the manufacture of a pharmaceutical composition for the treatment of hypercalcaemia of malignancy and/or skeletal metastasis Use of prostate secretory protein-94 for treating hypercalcemia of malignancy and reducing skeletal metastasis arising from carcinomas, prostate and breast cancers. Disclosure; Page 35-36; 61pp; English. 5 Panchal (PROC-) PROCYON BIOPHARMA INC 08-NOV-2002; 2002WO-CA001737. 08-NOV-2001; 2001CA-02361736. WPI; 2003-441476/41. Sequence 102 AA; WO2003039576-A1 Unidentified Rabbani SA, 

. 0 Length 102; Query Match 100.0%; Score 368; DB 7; Length 1 Best Local Similarity 100.0%; Pred. No. 1e-32; Matches 64; Conservative 0; Mismatches 0; Indels

EWQTDNCETCTCYSTEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDFKKTCSVS 1 EWQIDNCETCTCYSTELSCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS 39

61 EWII 64

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AAG03726 standard; protein; 114 AA. AAG03726; AAG03726

Human secreted protein, SEQ ID NO: 7807

Human; 5' EST; expressed sequence tag; secreted protein; cDNA isolation; gene therapy; chromosome mapping. 

Homo sapiens.

EP1033401-A2.

06-SEP-2000.

21-FEB-2000; 2000EP-00200610.

26-FEB-1999;

(GEST ) GENSET

Giordano J; Duclert A, Dumas Milne Edwards J,

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Novel human secretory protein, Seq ID No 236.
                                                                                                                                                                                                                                                                                                                                                         fertility; analgesic; pain; antigen
                                                                                                                                                                                                                                                        AAU28067 standard; protein; 114 AA
                                                                                                                                                                                                                                                                                                                                                                                                                           2000US-00574454.
2000US-00596193.
2000US-00616847.
2000US-00665363.
                                                                                                                                                                                                                                                                                                                                                                                                          05-MAR-2001; 2001WO-US004942
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   2000US-00693267
                                                                                                                                                                                                                                                                                (first entry)
                                                                                                                                                                   Best Local Similarity 100.
Matches 64; Conservative
     WPI; 2000-500381/45.
                                                                                                                                                                                                                         111 EWII 114
           N-PSDB; AAC03732.
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                                                                                                                                                 Seguence 114 AA;
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19-SEP-2000;
20-OCT-2000;
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17-JUN-2000;
                                                                                                                                                                                                                                                                                 18-DEC-2001
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The present sequence is a polypeptide encoded by one of a large number of S' ESTS derived from mRNAs encoding secreted proteins. The 5' ESTS were prepared from total human RNAs or polyA+ RNAs derived from 30 different tissues. EST sequences usually correspond mainly to the 3' untranslated region (UTR) of the mRNA because they are often obtained from oligo-dr primed cDNA libraries. Such ESTs are not well suited for isolating cDNA sequences derived from the 5' ends of mRNAs and even in those cases where longer cDNA sequences have been obtained, the full 5' UTR is rarely included. 5' ESTs are derived from mRNAs with intact 5' ends and can therefore be used to obtained, Inarch cONAs and genomic DNAs. 5' ESTs are also used in diagnostic, forensic, gene therapy and chromosome mapping procedures. They are used to obtain upstream regulatory sequences and to design expression and secretion vectors New nucleic acid that is a 5' expressed sequence tag (5' EST) for obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for diagnostic, forensic, gene therapy and chromosome mapping procedures. Claim 13; SEQ ID NO 7807; 71pp + Sequence Listing; English.

51 BWQIDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS 110 1 EWQTDNCETCTCYETEISCCTLVSTPVGYDXDNCQRIFKKEDCKYIVVEKKDPKKTCSVS 60 0; Gaps 100.0%; Score 368; DB 3; Length 114; 100.0%; Pred. No. 1.1e-32; ive 0; Mismatches 0; Indels (

Human, secreted protein, arthritis, Crohn's disease, sepsis, shock, ischaemia-reperfusion injury, haematopoiesis, cancer, neuropathy, transgenic animal; Alzheimer's disease, Parkinson's disease, burn, amyotrophic lateral sclerosis, platelet disorder, thrombocytopenia, ulcer; osteoporosis, bone degenerative disorder; periodontal disease; gut protection; lung, liver fibrosis, immune deficiency; infection; severe combined immunodeficiency, SCID; autoimmune disorder; altergy; multiple sclerosis; rheumatoid arthritis; diabetes mellitus; asthma;

(HYSE-) HYSEQ INC

Ren F, Ma Y, Zhou R, Xue AJ, Wang J; Chen R, Wehrman T, C, Wehrma Zhang J, × Asundi V, Xı Drmanac RT, Liu C, Yang Y, Tang YT, Zhao QA,

2001-589934/66. WPI; 2001-589934 N-PSDB; AAS44967

and treatment of CDNA libraries Novel polypeptides and nucleic acids obtained from cDNA libra prepared from various human tissues, for diagnosis and treatm cancer, neurological, inflammatory, and autoimmune disorders.

Example 3; SEQ ID NO 236; 107pp; English.

The invention relates to novel isolated human secreted polypeptides (I) and (II) are useful for treating and polynucleotides (II). (I) and (II) are useful for treating inflammatory conditions such as arthritis, nephritis, croin, a disease, inchammia-reperfusion injury, shock, sepsis, immune responses, and is involved in increasing haematopoiesis, stem cell survival, bone growth and remodeling. (I) (II) and modulators of (II) are useful for companies of prophylaxis or treatment of one or more cancers. (II) is also useful for the polypeptide as well as for studying modulators of the polypeptides. (I) induces the proliferation of neural cells and regeneration of nerve and brain tissue and is useful for the treatment of central and parint prisue and is useful for the treatment of central and parint parints. In addition, (I) is involved in cinematoric activity, regulation of haematopoises and is useful for treating myeloid activity, regulation of haematopoises; and amyorrophic lateral carliage the conditions. Out the disorders such as thrombocytopenia and for regeneration of bone, cartilage tendon, ligament and/or nerve and for regeneration of bone, cartilage tendon, ligament and/or nerve and for regeneration of bone, cartilage tendon, ligament and/or nerve and for regeneration and treatment of lung or liver fibrosis, or periodontal disease. Furthermore, (I) is also useful for gut protection or regeneration and treatment of lung or liver fibrosis, or fungal infections, autoimmune disorders e.g. multiple sclerosis, creations and conditions, such as asthma or other reginatory problems. In addition, (I) affects biorhythms or circadian cycles of thythms.

In addition, (I) affects biorhythms or circadian cycles of thythms.

In addition, (I) affects biorhythms or circadian cycles of thythms.

In addition, (I) affects biorhythms, and an art as an antigoric effects, immunofection to raise an indiageaic effects or other pain reducing amino acid sequences of the invention

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Sequence 114 AA;

0; Length 114; Indels 100.0%; Score 368; DB 4; 100.0%; Pred. No. 1.1e-32; ive 0; Mismatches 0; Query Match Best Local Similarity 100. Matches 64; Conservative 1 EWQTDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS

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28-AUG-2003 (first entry) ABR54574; ABR54574
ID ABRE
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AC ABRE
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DT 28-1
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DE Pros

ABR54574 standard; protein; 114 AA.

RESULT 8

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Prostatic secretory protein SEQ ID 1003

25-JUL-2002; 2002WO-US023913

us-09-977-406a-58.rag

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The present invention relates to novel prostate-specific proteins (PSP) and their coding sequences. The PSPs and their coding sequences are useful for stimulating an immune response in a patient, or for treating prostate cancer in a patient and for determining, detecting or diagnosing the presence of a cancer in a patient. The present sequence was used to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New prostate-specific proteins and genes, useful in gene therapy, particularly for stimulating an immune response in a patient, or treatin prostate cancer in a patient, as well as for diagnosing prostate cancer
                                                                                                                                                                                                                Jiang Y, n.
Day CH, Vedvick
Hural J;
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               Cytostatic; gene therapy; prostate-specific protein; PSP; human; immune response; prostate cancer.
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                                                                                                                                                                                                                                 Xu J, Dillon DC, Mitcham JL, Harlocker SL, Jiang Y, H Kalos MD, Fanger GR, Retter MW, Stolk JA, Day CH, Ved Carter D, Li SX, Wang A, Skeiky YAW, Hepler WT, Hural Moneill PD, Houghton RL, Vinals Y De BassolsC, Foy TM, Deng T;
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100.0%; Pred. No. 1.1e-32;
ive 0; Mismatches 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Prostate cancer marker protein.
                                                                                                                                                    09-MAY-2001; 2001US-00852911.
29-JUN-2001; 2001US-00895814.
10-DEC-2001; 2001US-00012896.
                                                                                                                            09-MAY-2002; 2002WO-US014753
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                                                  Homo sapiens
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the cancerous state of prostate cells. Also disclosed is a method of assessing whether a patient is afflicted with prostate cancer. The method of the invention involves assessing whether a patient is afflicted with prostate cancer by comparing the level of expression of a marker in a patient sample and the normal level of expression of the marker in a control non-prostate cancer sample, where a significant increase in the level indicates that the patient is afflicted with prostate cancer. Nucleic acids of the invention are useful for diagnosing or treating prostate cancer, and may be useful in gene therapy. Sequences given in ADB75177-ADB7561 represent marker cDNA and proteins. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic form at directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BWQTDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS 110
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                                                                                                                                                                                                                                                                                                                            The invention relates to newly discovered cancer markers associated with
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                                                                                                                                                                                                                                             New nucleic acid molecule, useful for diagnosing or treating prostate
                                                                                                                                                               Gorbatcheva
Anderson D;
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att K, Zhao X,
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Wonsey AM, Glatt K,
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                                                                                                                                                                                                                                                                                             Disclosure; SEQ ID NO 271; 99pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human prostatic secretory protein (PSP).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADB14453 standard; protein; 114 AA
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                             25-JUL-2001, 2001US-0307982P.
22-ANG-2001, 2001US-0314356P.
25-SEP-2001, 2001US-0352020P.
12-DEC-2001, 2001US-0341745P.
05-MAR-2002, 2002US-03621S8P.
                                                                                                                              (MILL-) MILLENNIUM PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       12-NOV-2002; 2002US-00294025
                                                                                                                                                               Monahan JE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          64; Conservative
                                                                                                                                                                              Kamatkar S,
                                                                                                                                                                                                             WPI; 2003-248033/24.
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18-NOV-1
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The invention relates to an isolated polypeptide comprising no more than 11-542 amino acids of ADB13563 comprising a sequence ADB14487. The peptides comparise a fragment ADB13563 of that contain naturally processed to peptides comparise a fragment ADB13563 of that contain naturally processed a leader a class I major histocompatibility complex (MHC) and of 48 disclosed as new. Also included are nucleic acids councilly, one of 648 disclosed as new. Also included are nucleic acids councilly the proteins and peptides, expression vectors, a host cell cransformed with the vector, an isolated antibody (or antigen binding the presence of a cancer in a patient (comprising contacting a patient (comprising the peptide, betteting a patient (comprising the amount of polypeptide to a predetermined cutofic appearing as ADB1358, detecting the amount of polypeptide to a predetermined cutofic appearing the proteins. Stimulating or expanding T cells specific for a tumour protein comprising contacting T cells specific for a tumour protein comprising contacting T cells with the peptides or the isolated T cell population, treating prostate cancer in a patient and treating a prostate cancer in a patient and treating a composition comprising the presence of a nucleic acids, antibodies or compounds, determining the presence of a cancer in a patient with the peptides or antigen presenting cluster of differentiation (CD4+) and/or CD8+ T cells isolated from a patient with the peptides or antigen presenting cluster of differentiation (CD4+) and administering the presence of cancer in a patient. The peptides, nucleic acids encoding, or antigen-presenting cells expressing them uncleic acids encoding, are used to antigen-presenting cells expressing the nucleic acids are timed to expand T cell specific for a tumour protein, T cell populations or antigen presenting cells are used to stimulate an immune response or treat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New isolated polypeptide for use in a vaccine for stimulating an immune response, or for treating or diagnosis cancer, preferably prostate
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                                                                  98US-00136453
98US-00115453
98US-00115453
99US-0022149
99US-00352616
99US-0043313
99US-0044318
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2000US-00636215.
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2001; 2001US-00759143.
2001; 2001US-00780669.
97US-00904804
98US-00020956
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        06-SEP-2000;
02-OCT-2000;
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09-AUG-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human, prostate cancer, prostate cancer antigen, detection, diagnosis, neuroprotective, cytostatic, cardioactive, immunomodulatory, muscular; vulnerary, gastrointestinal, nephrotropic, antilnfective, gynaecological, antibacterial, gene therapy, neural, immune, reproductive, renal; gastrointestinal, pulmonary, cardiovascular, proliferative disorder; wound, infectious disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Prostate cancer associated gene sequences, referred to as prostate cancer antigens, useful for treatment, prevention, and diagnosis of disorders
prostate cancer in a patient. The present sequence is a prostate specific protein of the invention. Note: Except where otherwise indicated, the sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from USPTO at segdata.uspto.gov/sequence.html?DocID=20030185830.
                                                                                                                                                                                                                                                                       51 BWQTDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS 110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAF15566 to AAF16505 encode the human prostate cancer associated proteins, called prostate cancer antigens, given in AAB56363 to AAB57302. The prostate cancer antigens can have neuroprotective, cytostatic,
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                                                                                                                                                                                                                                              1 EWQTDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human prostate cancer antigen protein sequence SEQ ID NO:1027.
                                                                                                                                                                     Length 114;
                                                                                                                                                                Match 100.0%; Score 368; DB 7; Local Similarity 100.0%; Pred. No. 1.1e-32; les 64; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 11; Page 1457; 2338pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAB56449 standard; protein; 132 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (HUMA-) HUMAN GENOME SCI INC. (ROSE/) ROSEN C A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             08-MAR-2000; 2000WO-US005988
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2000-587513/55.
N-PSDB; AAF15652.
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                                                                                                                                                                                                                                                                                                                                        61 EWII 64
                                                                                                                                  Sequence 114 AA;
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                                                                                                                                                                           Query Match
                                                                                                                                                                                                                  Matches
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EWQTDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS EWQTDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS

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s, wounds, and infectious diseases. AAF16506 to AAF16514 to represent sequences used in the exemplification of the present
                                                                                                                                                                                                                                                                                                                                                           Cancer; human; PSP94; prostatic inhibin protein; PIP; HSPI; beta-MSP; beta-microseminoprotein; human seminal plasma inhibin; analogue; prostate secretory protein of 94 amino acids; prostatic adenocarcinoma; stomach cancer; breast cancer; endometrial cancer; ovarian cancer; benign prostate hyperplasia; cytostatic.
                                                                                                                                                                                                                                                                                                                                    Human prostate secretory protein of 94 amino acids PSP94 analogue #53.
                                                                                                                        EWQTDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS
                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New human prostate secretory protein of 94 amino acids, useful for inhibiting growth of e.g. tumor, prostatic adenocarcinoma, stomach gastrointestinal, breast, endometrial, and ovarian cancers.
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                                                                                                 Indels
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Pred. No. 1.6e-32;
0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Fraser J,
                                                                       100.0%; Score 368; DB 3;
100.0%; Pred. No. 1.3e-32;
ive 0; Mismatches 0;
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                                                                                                                                                                                                                                                            AAO17964 standard; protein; 63 AA.
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Conservative 0;
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20-AUG-2001; 2001CA-02355334.
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                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                 64; Conservative
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                                                                                       Similarity
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Best Local Similarity
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                                                   Sequence 132 AA;
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  disorders,
                           invention
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Matches
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                                                                                                                                                                                                                                                                                                                      Cancer, human; PSP94; prostatic inhibin protein; PIP; HSPI; beta-MSP; beta-microseminoprotein; human seminal plasma inhibin; analogue; prostate secretory protein of 94 amino acids; prostatic adenocarcinoma; stomach cancer; brast cancer; endometrial cancer; ovarian cancer; benign prostate hyperplasia; cytostatic.
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                                                                                                                                                                                                                                                                  Human prostate secretory protein of 94 amino acids PSP94 analogue #52
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Best Local Similarity 100.0%; Pred. No. 4.4e-32;
Matches 62; Conservative 0; Mismatches 0;
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                                                              AAO17963 standard; protein; 62 AA.
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20-AUG-2001; 2001CA-02355334.
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RESULT 13
                                  AAO17963
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Gaps

63;

Matches

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                                                                                                                                    Prostatic inhibin peptide; cancer; adenocarcinoma; breast cancer; hyperplasia; PIP; follicle stimulating hormone; FSH; tumour; inhibition; prostate cancer; gastrointestinal tract.
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benign prostatic hyperplasia, adenocarcinoma or diseases with high
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                                                                                                             Complete sequence of human prostatic inhibin peptide.
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                        AAR47117 standard; peptide; 94 AA
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                                                                         (revised)
(first entry)
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Best Local Similarity 100.
Matches 62; Conservative
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                                                                                                                                                                                           Homo sapiens
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30-JUN-1994
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RESULT 14
AAR47117
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Human prostate secretory protein of 94 amino acids PSP94 analogue #51.

(first entry)

30-AUG-2002

AA017962;

Cancer; human; PSP94; prostatic inhibin protein; PIP; HSPI; beta-MSP;

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            prostate secretory protein of 94 amino acids; prostatic adenocarcinoma; stomach cancer; breast cancer; endometrial cancer; ovarian cancer; benign prostate hyperplasia; cytostatic.
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beta-microseminoprotein; human seminal plasma inhibin; analogue;
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100.0%; Pred. No. 6.9e-31;
ive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                Baijal-Gupta M,
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                                                                                                                                                                                                                                                                    PROC-) PROCYON BIOPHARMA INC
                                                                                                                                                                                                                   16-OCT-2000; 2000CA-02321256.
20-AUG-2001; 2001CA-02355334.
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GenCore version 5.1.6 Copyright (c) 1993 - 2004 Compugen Ltd.

sw model protein search, using OM protein March 11, 2004, 17:45:11; Search time 17.5403 Seconds (without alignments) 241.627 Million cell updates/sec Run on:

US-09-977-406A-5 97 Title: Perfect score:

EWQTDNCETCTCYET 15

BLOSUM62 Gapop 10.0 , Gapext 0.5 Sequence:

Scoring table:

1586107 seqs, 282547505 residues Searched:

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

A Geneseq 29Jan04:\*

1: geneseqp1980s:\*

2: geneseqp1990s:\*

3: geneseqp2000s:\*

4: geneseqp2001s:\*

geneseqp2002s:\* geneseqp2003as:\* geneseqp2003bs:\* geneseqp2004s:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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## ALIGNMENTS

RESULT 1

Ą. AAO17915 standard; peptide; 15

AA017915;

(first entry) 30-AUG-2002 Human prostate secretory protein of 94 amino acids PSP94 analogue #4.

Cancer; human; PSP94; prostatic inhibin protein; PIP; HSPI; beta-MSP; beta-microseminoprotein; human seminal plasma inhibin; analogue; prosteters sereerory protein of 94 amino acids; prostatic adenocarcinoma; stomach cancer; breast cancer; endometrial cancer; ovarian cancer; benign prostate hyperplasia; cytostatic. 

Homo sapiens.

WO200233090-A2.

25-APR-2002.

15-OCT-2001; 2001WO-CA001463

16-OCT-2000; 2000CA-02321256. 20-AUG-2001; 2001CA-02355334.

(PROC-) PROCYON BIOPHARMA INC.

Fraser J, Kadhim S; Garde S, Panchal CJ, Baijal-Gupta M,

WPI; 2002-471401/50.

New human prostate secretory protein of 94 amino acids, useful for inhibiting growth of e.g. tumor, prostatic adenocarcinoma, stomach, gastrointestinal, breast, endometrial, and ovarian cancers.

Claim 1; Page 74; 185pp; English.

The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PSP94, also known as prostatic inhibit peptide (PIP), human seminal plasma inhibit (ISPI) and betamicroseminoprotein (beta-NSP)). The analogues are useful for inhibiting growth of tumours, prostatic adenocarcinoma, stomach or gastrointestinal cancer, breast cancer, endometrial, ovarian or other cancers of epithelial secretion, or benign prostate hyperplasia and for treating patients with a disease characterized by elevated levels of FSH. The present sequence is an analogue of the invention

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The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PSP94, also known as prostatic inhibin peptide (PIP), human seminal plasma inhibin (HSPI) and betaminosorotein (bets-MSPI). The analogues are useful for inhibiting growth of tumours, prostatic adenocarcinoma, stomach or gastrointestinal cancer, breast cancer, adometrial, ovarian or other cancers of epithelial secretion, or being prostate hyperplasia and for treating patients with a disease characterized by elevated levels of FSH. The
                                                                                                                                                     Cancer, human; PSP94; prostatic inhibin protein; PIP; HSPI; beta-MSP; beta-microseminoprotein; human seminal plasma inhibin; analogue; prostate secretory protein of 94 amino acids; prostatic adenocarcinoma; stomach cancer; breast cancer; endometrial cancer; ovarian cancer;
                                                                                                               Human prostate secretory protein of 94 amino acids PSP94 analogue #6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New human prostate secretory protein of 94 amino acids, useful for inhibiting growth of e.g. tumor, prostatic adenocarcinoma, stomach, gastrointestinal, breast, endometrial, and ovarian cancers.
                                                                                                                                                                                                                                           benign prostate hyperplasia; cytostatic
AAO17917 standard; peptide; 16 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 2; Page 76; 185pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (PROC-) PROCYON BIOPHARMA INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                           16-OCT-2000; 2000CA-02321256.
20-AUG-2001; 2001CA-02355334.
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                                                                               (first entry)
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                                                                                                                                                                                                                                                                                    Homo sapiens
                                                                               30-AUG-2002
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                                      AA017917;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention relates to the use of prostate secretory protein-94 (PSP-94; ABR562224) for treating a patient suffering from hypercalcaemia of malignancy. PSP-94 is useful for treating a patient suffering from bypercalcaemia of malignancy arising from carcinomas, prostate and breast cancer. The PSP-94 is also useful for reducing parathyroid hormone related peptide (PTHrP) levels in a patient in need and reducing the development of skeletal metastasis. The PSP-94 is also used for the manufacture of a pharmaceutical composition for the treatment of hypercalcaemia of malignancy and/or skeletal metastasis. The present sequence is a peptide fragment of PSP-94, used to illustrate the
                                                                                                                                                                                                                                                                                                                                                                                                                                           Cytostatic; prostate secretory protein-94; PSP-94; human; hypercalcaemia of malignancy; carcinoma; prostate cancer; breast cancer; parathyroid hormone related peptide; PTHrP; skeletal metastasis.
                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Use of prostate secretory protein-94 for treating hypercalcemia of malignancy and reducing skeletal metastasis arising from carcinomas, prostate and breast cancers.
                                                                                                                                                                                                                                                                                                                                                                                                       Prostate secretory protein-94 (PSP-94) peptide fragment PCK3145
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                                                           100.0%; Score 97; DB 5; L
100.0%; Pred. No. 1.1e-05;
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Pred. No. 1.1e-05;
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                                                                                                      Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; Page 37; 61pp; English.
                                                                                                                                                                                                                                                                                    ABR56231 standard; peptide; 15 AA.
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                                                                                                                                             1 EWQTDNCETCTCYET 15
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Best Local Similarity 100.
Matches 15; Conservative
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                                                                                   Best Local Similarity
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                         AA;
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                       Sequence 15
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                                                           Query Match
                                                                                                    Matches
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Kadhim S;

Fraser J,

Baijal-Gupta M,

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human prostate secretory protein of 94 amino acids PSP94 analogue #55
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                                                                                           Length 16;
                                                                                                                                       Indels
                                                                                        Score 97; DB 5; L
Pred. No. 1.2e-05;
present sequence is an analogue of the invention
                                                                                                                                       Mismatches
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100.0%; Pr
tive 0;
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Best Local Similarity
Matches 15; Conserv
                                                   Sequence 16 AA;
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Mismatches

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1 EWQTDNCEICTCYET 15

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RESULT 3 AAO17917

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The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PS594, also known as prostatic inhibin peptide (PIP), human seminal plasma inhibin (HSPI) and betaminatoroseminoprotein (bets-MSP). The analogues are useful for inhibiting growth of tumours, prostatic adenocarcinoma, stomach or gastrointestinal cancer, breast cancer, endometrial, ovarian or other cancers of epithelial secretion, or benign prostate hyperplasia and for treating patients with a disease characterized by elevated levels of FSH. The present sequence is an analogue of the invention
                                                                                                                                                                                                                                                                                                                          New human prostate secretory protein of 94 amino acids, useful for inhibiting growth of e.g. tumor, prostatic adenocarcinoma, stomach, gastrointestinal, breast, endometrial, and ovarian cancers.
                                                                                                                                                                                                                                                     Garde S, Panchal CJ, Baijal-Gupta M,
                                                                                                                                                                                                                                                                                                                                                                                                   Claim 2; Page 94; 185pp; English.
                                                                                                                                                                                                                    (PROC-) PROCYON BIOPHARMA INC
                                                                                                                                                               16-OCT-2000; 2000CA-02321256.
20-AUG-2001; 2001CA-02355334.
                                                                                                                          15-OCT-2001; 2001WO-CA001463
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 16 AA;
                                                     WO200233090-A2
                     Homo sapiens
                                                                                          25-APR-2002
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Kadhim S;

Fraser J,

100.0%; Score 97; DB 5; Length 16; 100.0%; Pred. No. 1.2e-05; 0; Indels Mismatches . 0 1 EWOTDNCETCTCYET 15 Local Similarity 100. Les 15; Conservative Best Loc Matches ठ

2 EWQTDNCETCTCYET

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AAO17967 standard; peptide; 17 AA. 30-AUG-2002 AA017967; RESULT 5 AAO17967 

Human prostate secretory protein of 94 amino acids PSP94 analogue #56. (first entry)

Cancer, human, PSP94; prostatic inhibin protein, PIP; HSPI, beta-MSP, beta-microseminoprotein; human seminal plasma inhibin; analogue; prostate secretory protein of 94 amino acids; prostatic adenocarcinoma; stomach cancer; breast cancer; endometrial cancer; ovarian cancer; benign prostate hyperplasia; cytostatic.

Homo sapiens

WO200233090-A2.

25-APR-2002

15-OCT-2001; 2001WO-CA001463

16-OCT-2000; 2000CA-02321256. 20-AUG-2001; 2001CA-02355334.

(PROC-) PROCYON BIOPHARMA INC

Fraser Baijal-Gupta M, Panchal CJ, WPI; 2002-471401/50 ŝ Garde 

Kadhim

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nseful New human prostate secretory protein of 94 amino acids, use: inhibiting growth of e.g. tumor, prostatic adenocarcinoma, gastrointestinal, breast, endometrial, and ovarian cancers.

Claim 2; Page 94; 185pp; English.

The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PSP94, also known as prostatic inhibin peptide (PIP), human seminal plasma inhibin (HSRI) and betaminatoreseminoprotein (bets-MSP). The analogues are useful for inhibiting growth of tumours, prostatic adenocarcinoma, stomach or gastrointestinal cancer, breast cancer, candometrial, ovarian or other cancers of epithelial secretion, or benign prostate hyperplasia and for treating patients with a disease characterized by elevated levels of FSH. The present sequence is an analogue of the invention

Sequence 17 AA;

Gaps ; 0 100.0%; Score 97; DB 5; Length 17; 100.0%; Pred. No. 1.3e-05; ative 0; Mismatches 0; Indels 15; Conservative Best Local Similarity Query Match Matches

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AAO17918 standard; peptide; 17 AA.

AA017918;

(first entry) 30-AUG-2002

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Gaps

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Human prostate secretory protein of 94 amino acids PSP94 analogue #7

Cancer; human; PSP94; prostatic inhibin protein; PIP; HSP1; beta-MSP; beta-microseminoprotein; human seminal plasma inhibin; analogue; protetereory protein of 94 amino acids; proteatic adenocarcinoma; stomach cancer; breast cancer; endometrial cancer; ovarian cancer; benign prostate hyperplasia; cytostatic. ANOLTY 6
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Homo sapiens.

WO200233090-A2.

25-APR-2002

15-OCT-2001; 2001WO-CA001463

16-OCT-2000; 2000CA-02321256. 20-AUG-2001; 2001CA-02355334.

(PROC-) PROCYON BIOPHARMA INC

Kadhim S; Fraser J, S, Panchal CJ, Baijal-Gupta M, Garde

WPI; 2002-471401/50.

New human prostate secretory protein of 94 amino acids, useful for inhibiting growth of e.g. tumor, prostatic adenocarcinoma, stomach gastrointestinal, breast, endometrial, and ovarian cancers.

Claim 2; Page 76; 185pp; English

The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PSP94, also known as prostatic

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inhibin peptide (PIP), human seminal plasma inhibin (HSPI) and beta-microseminoprotein (bets-MSP)). The analogues are useful for inhibiting growth of tumours, prostatic adenocarcinoma, stomach or gastrointestinal cancer, endometrial, ovarian or other cancers of epithelial secretion, or benign prostate hyperplasia and for treating patients with a disease characterized by elevated levels of FSH. The present sequence is an analogue of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PSP94, also known as prostatic linhibin peptide (PIP), human seminal plasma inhibin (BEST) and betamicoseminoprotein (beta-MSP). The analogues are useful for inhibiting growth of tumours, prostatic adenocarcinoma, stomach or gastrointestinal cancer, breast cancer, endometrial, ovarian or other cancers of epithelial secretion, or benign proteate hyperplasia and for treating patients with a disease characterized by elevated levels of FSH. The present sequence is an analogue of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Cancer; human; PSP94; prostatic inhibin protein; PIP; HSPI; beta-MSP; beta-microseminoprotein; human seminal plasma inhibin; analogue; prostetes secretory protein of 94 amino acids; prostatic adenocarcinoma; stomach cancer; breast cancer; endometrial cancer; ovarian cancer; benign prostate hyperplasia; cytostatic.
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Best Local Similarity 100.0%; Pred. No. 1.4e-05;
Matches 15; Conservative 0; Mismatches 0; Indels
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Pred. No. 1.3e-05;
Mismatches 0;
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Best Local Similarity
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The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PSP94, also known as prostatic inhibin peptide (PIP), human seminal plasma inhibin (HSPI) and betaminosceminoprotein (bets-MSP). The analogues are useful for inhibiting growth of tumours, prostatic adenocarcinoma, stomach or gastrointestinal acancer, braast cancer, endometrial, ovarian or other cancers of epithelial secretion, or benign prostate hyperplasia and for treating patients with a disease characterized by elevated levels of FSH. The
                                                                                                                                                                                                                                       Cancer; human; PSP94; prostatic inhibin protein; PIP; HSPI; beta-MSP; beta-microseminoprotein; human seminal plasma inhibin; analogue; prostates secretory protein of 94 amino acids; prostatic adenocarcinoma; stomach cancer; breast cancer; endometrial cancer; ovarian cancer; benign prostate hyperplasia; cytostatic.
                                                                                                                                                                                                      Human prostate secretory protein of 94 amino acids PSP94 analogue #57
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          100.0%; Score 97; DB 5; I 100.0%; Pred. No. 1.4e-05; Live 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          present sequence is an analogue of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Baijal-Gupta M,
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                                                                                                             AA017968 standard; peptide; 18 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 2; Page 94; 185pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (PROC-) PROCYON BIOPHARMA INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             16-OCT-2000; 2000CA-02321256.
20-AUG-2001; 2001CA-02355334.
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Matches 15, Conserv
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AAO17969
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(first entry)

30-AUG-2002

AA017969;

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Cancer; human; PSP94; prostatic inhibin protein; PIP; HSPI; beta-MSP; beta-microseminoprotein; human seminal plasma inhibin; analogue; prostate secretory protein of 94 amino acids; prostatic adenocarcinoma; stomach cancer; breast cancer; endometrial cancer; ovarian cancer; benign prostate hyperplasia; cytostatic.
             prostate secretory protein of 94 amino acids PSP94 analogue #58
                                                                                                                                                                                                                                                                                                                                    New human prostate secretory protein of 94 amino acids, useful for inhibiting growth of e.g. tumor, prostatic adenocarcinoma, stomach, gastrointestinal, breast, endometrial, and ovarian cancers.
                                                                                                                                                                                                                                                                                   Panchal CJ, Baijal-Gupta M, Fraser J, Kadhim
                                                                                                                                                                                                                                                                                                                                                                                     Claim 2; Page 95; 185pp; English.
                                                                                                                                                                                                                                                            (PROC-) PROCYON BIOPHARMA INC
                                                                                                                                                                                                                    16-OCT-2000; 2000CA-02321256. 20-AUG-2001; 2001CA-02355334.
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                                                                                                                                         WO200233090-A2.
                                                                                                                 Homo sapiens
                                                                                                                                                                  25-APR-2002
                                                                                                                                                                                                                                                                                   Garde S,
               Human
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The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PSP94, also known as prostatic inhibin peptide (PIP), human seminal plasma inhibin (HSP1) and beta-microseminoprotein (Bets-MSP). The analogues are useful for inhibiting growth of tumours, prostatic adenocarcinoma, stomach or gastrointestinal cancer, breast cancer, endometrial, ovarian or other cancers of epithelial secretion, or benign prostate hyperplasia and for treating patients with a disease characterized by elevated levels of FSH. The present sequence is an analogue of the invention

Sequence 19 AA;

·. 100.0%; Score 97; DB 5; Length 19; 100.0%; Pred. No. 1.4e-05; ive 0; Mismatches 0; Indels Conservative Query Match Best Local Similarity 15, Conserv?

15 EWQTDNCETCTCYET 19 1 EWQTDNCETCTCYET Ŋ

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AAO17920 standard; peptide; 19 AA. AA017920; RESULT 10 

(first entry) 30-AUG-2002 Human prostate secretory protein of 94 amino acids PSP94 analogue #9.

Cancer; human; PSP94; prostatic inhibin protein; PID; HSP1; beta-MSP; beta-microseminoprotein; human seminal plasma inhibin; analogue; prostate secretory protein of 94 amino acids; prostatic adenocarcinoma; stomach cancer; breast cancer; endometrial cancer; ovarian cancer; benign prostate hyperplasia; cytostatic.

Homo sapiens

WO200233090-A2

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The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PSP94, also known as prostatic inhibin peptide (PIP), human seminal plasma inhibin (HSPI) and betaminaroseminoprotein (bets-MSP). The analogues are useful for inhibiting growth of tumours, prostatic adenocarcinoma, stomach or gastrointestinal ancer, breast cancer, endometrial, ovarian or other cancers of epithelial secretion, or benign prostate hyperplasia and for treating patients with a disease characterized by elevated levels of FSH. The present sequence is an analogue of the invention
                                                                                                                                                                                                                          New human prostate secretory protein of 94 amino acids, useful for inhibiting growth of e.g. tumor, prostatic adenocarcinoma, stomach, gastrointestinal, breast, endometrial, and ovarian cancers.
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                                                                                                                                                            Kadhim
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                                                                                                                                                            Fraser
                                                                                                                                                            Baijal-Gupta'M,
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                                                                                                                      (PROC-) PROCYON BIOPHARMA INC
                                                                16-OCT-2000; 2000CA-02321256.
20-AUG-2001; 2001CA-02355334.
                                                                                                                                                          Panchal CJ,
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                                15-OCT-2001;
25-APR-2002
                                                                                                                                                          Garde S,
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RESULT 11

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Gaps

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100.0%; Score 97; DB 5; Length 19; 100.0%; Pred. No. 1.4e-05; ive 0; Mismatches 0; Indels

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EWQTDNCETCTCYET

AAO17921 standard; peptide; 20 AA. AA017921

(first entry) 30-AUG-2002 AAC17921; 

Cancer; human; PSP94; prostatic inhibin protein; PIP; HSPI; beta-MSP; beta-microseminoprotein; human seminal plasma inhibin; analogue; prostate secretory protein of 94 amino acids; prostatic adenocarcinoma; stomach cancer; breast cancer; endometrial cancer; ovarian cancer; benign prostate hyperplasia; cytostatic. Human prostate secretory protein of 94 amino acids PSP94 analogue #10

Homo sapiens

WO200233090-A2

25-APR-2002

15-OCT-2001; 2001WO-CA001463.

16-OCT-2000; 2000CA-02321256. 20-AUG-2001; 2001CA-02355334.

(PROC-) PROCYON BIOPHARMA INC

., S Fraser J, Baijal-Gupta M, Panchal CJ, Garde S,

WPI; 2002-471401/50

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The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PSP94, also known as prostatic linhibin peptide (PIP), human seminal plasma inhibin (HSPI) and beta microseminoprotein (bets-MSP). The analogues are useful for inhibiting growth of tumours, prostatic adenocarcinoma, stomach or gastrointestinal cancer, endometrial, ovarian or other cancers of epithelial secretion, or benign prostate hyperplasia and for treating patients with a disease characterized by elevated levels of FSH. The
New human prostate secretory protein of 94 amino acids, useful for inhibiting growth of e.g. tumor, prostatic adenocarcinoma, stomach, gastrointestinal, breast, endometrial, and ovarian cancers.
                                                                                                                                                                                                                                                                                                                                                              present sequence is an analogue of the invention
                                                                                                           Claim 2; Page 77; 185pp; English.
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             FFFXXXXCCCCCCCXXX
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Query Match 100. Best Local Similarity 100. Matches 15; Conservative

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Gaps

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Length 20; 0; Indels

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Mismatches Score 97; Pred. No. 1

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15 1 EWOTDNCETCTCYET 15 1 EWQTDNCETCTCYET ò

RESULT 12 AA017970

AA017970 standard; peptide; 20 AA.

AA017970;

30-AUG-2002

(first entry)

Cancer; human; PSP94; prostatic inhibin protein; PIP; HSP1; beta-MSP; beta-microseminoprotein; human seminal plasma inhibin; analogue; prostate secretory protein of 94 amino acids; prostatic adenocarcinoma; stomach cancer; breast cancer; endometrial cancer; ovarian cancer; benign prostate hyperplasia; cytostatic.

Human prostate secretory protein of 94 amino acids PSP94 analogue #59

Homo sapiens.

25-APR-2002

WO200233090-A2

15-OCT-2001; 2001WO-CA001463

16-OCT-2000; 2000CA-02321256. 20-AUG-2001; 2001CA-02355334.

(PROC-) PROCYON BIOPHARMA INC

New human prostate secretory protein of 94 amino acids, useful for inhibiting growth of e.g. tumor, prostatic adenocarcinoma, stomach, gastrointestinal, breast, endometrial, and ovarian cancers. WPI; 2002-471401/50. Garde S,

Kadhim

Fraser J,

Baijal-Gupta M,

Panchal CJ,

Claim 2; Page 95; 185pp; English.

The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PSP94, also known as prostatic inhibin peptide (PIP), human seminal plasma inhibin (HSPI) and betagniorosemin(pertoral (beta-MSP)). The analogues are useful for inhibiting growth of tumours, prostatic adenocarcinoma, stomach or gastrointestinal cancer, breast cancer, endometrial, ovarian or other cancers of epithelial secretion, or benign prostate hyperplasia and for treating

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Gaps

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Score 97; DB 5; 1 Pred. No. 1.6e-05; ; Mismatches 0;

100.0%; Sci 100.0%; Pri tive 0; 1

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Query Match Best Local Similarity

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EWOTDNCETCTCYET 15

Length 21;

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                                                                                                                                                                                                                                                                                                                                                             Cancer; human; PSP94; prostatic inhibin protein; PIP; HSPI; beta-MSP; beta-Mscoseminoprotein; human seminal plasma inhibin; analogue; prostate secretory protein of 94 amino acids; prostatic adenocarcinoma; stomach cancer; breast cancer; endometrial cancer; ovarian cancer; benign prostate hyperplasia; cytostatic.
                                                                                                                                                                                                                                                                                                                                     Human prostate secretory protein of 94 amino acids PSP94 analogue #11.
                                                                                                            Gaps
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   FSH.
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patients with a disease characterized by elevated levels of present sequence is an analogue of the invention
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Pred. No. 1.5e-05;
                                                                                                            Mismatches
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                                                                                                                                                                                                                                                  AAO17922 standard; peptide; 21 AA.
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20-AUG-2001; 2001CA-02355334.
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                                                                                             Local Similarity
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                                                                                    Query Match
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The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PSP94, also known as prostatic inhibit no peptide (PIP), human seminal plasma inhibin (HSPI) and beta-microseminoprotein (bets-MSP). The analogues are useful for inhibiting growth of tumours, prostatic adenocarcinoma, stomach or gastrointestinal acancer, breast cancer, endometrial, ovarian or other cancers of epithelial secretion, or benign prostate hyperplasia and for treating patients with a disease characterized by elevated levels of FSH. The present sequence is an analogue of the invention
                                                                                                                                                                          Cancer; human; PSP94; prostatic inhibin protein; PIP; HSPI; beta-MSP; beta-microseminoprotein; human seminal plasma inhibin; analogue; prostate secretory protein of 94 amino acids; prostatic adenocarcinoma; stomach cancer; breast cancer; endometrial cancer; ovarian cancer; benign prostate hyperplasia; cytostatic.
                                                                                                                                            Human prostate secretory protein of 94 amino acids PSP94 analogue #60.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New human prostate secretory protein of 94 amino acids, useful for inhibiting growth of e.g. tumor, prostatic adenocarcinoma, stomach, gastrointestinal, breast, endometrial, and ovarian cancers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Baijal-Gupta M, Fraser J, Kadhim S;
                                     AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 2; Page 95; 185pp; English.
                                AAO17971 standard; peptide; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (PROC-) PROCYON BIOPHARMA INC
                                                                                                                                                                                                                                                                                                                                                                                                                             16-OCT-2000; 2000CA-02321256.
20-AUG-2001; 2001CA-02355334.
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                                                                                                        (first entry)
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                                                                                                                                                                                                                                                                                    Homo sapiens.
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                                                                      AAO17971;
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RESULT 14
AAO17971
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ö Gaps ; 0 Sequence 21 AA;

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/ Match 100.0%; Score 97; DB 5; Length 21; Local Similarity 100.0%; Pred. No. 1.6e-05; No. 15; Conservative 0; Mismatches 0; Indels
    Query Match
                       Best Loc
Matches
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1 EWQTDNCETCTCYET 15 EWQTDNCETCTCYET 21 a

AA017923 standard; peptide; 22 AA. 30-AUG-2002 AA017923; RESULT 15 

Human prostate secretory protein of 94 amino acids PSP94 analogue #12

Cancer; human; PSP94; prostatic inhibin protein; PIP; HSP1; beta-MSP; beta-microseminoprotein; human seminal plasma inhibin; analogue;

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prostate secretory protein of 94 amino acids; prostatic adenocarcinoma; stomach cancer; breast cancer; endometrial cancer; ovarian cancer; benign prostate hyperplasia; cytostatic.
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WO200233090-A2 Homo sapiens

15-OCT-2001; 2001WO-CA001463

16-OCT-2000; 2000CA-02321256. 20-AUG-2001; 2001CA-02355334.

(PROC-) PROCYON BIOPHARMA INC

WPI; 2002-471401/50.

Garde S, Panchal CJ, Baijal-Gupta M, Fraser J, Kadhim S;

New human prostate secretory protein of 94 amino acids, useful for inhibiting growth of e.g. tumor, prostatic adenocarcinoma, stomach, gastrointestinal, breast, endometrial, and ovarian cancers.

Claim 2; Page 78; 185pp; English

The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PSP94, also known as prostatic inhibin peptide (PIP), human seminal plasma inhibin (HSRI) and betamineroseminoprotein (beta-MSP). The analogues are useful for inhibiting growth of tumours, prostatic adenocarchoma, stomach or gastrointestinal cancer, breast cancer, endometrial, ovarian or other cancers of epithelial secretion, or benign prostate hyperplasia and for treating patients with a disease characterized by elevated levels of FSH. The present sequence is an analogue of the invention 

Sequence 22 AA;

Gaps 0 Length 22; Indels 100.0%; Score 97; DB 5; I. 100.0%; Pred. No. 1.6e-05; tive 0; Mismatches 0; Conservative Query Match
Best Local Similarity
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Copyright (c) 1993 - 2004 Compugen Ltd.
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OM protein - protein search, using sw model

March 11, 2004, 17:45:11; Search time 52.621 Seconds (without alignments) 241.627 Million cell updates/sec Run on:

US-09-977-406A-88 268 Title: Perfect score:

1 SCYFIPNEGVPGDSTRKCMD........HPINSEWQTDNCETCTCYET Sequence:

Scoring table:

BLOSUM62 Gapop 10.0 , Gapext 0.5

Total number of hits satisfying chosen parameters: 1586107 seqs, 282547505 residues Searched:

1586107

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

A\_Geneseq\_29Jan04:\* Database :

geneseqp1980s:\* geneseqp1990s:\* geneseqp2000s:\* geneseqp2001s:\*

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geneseqp2004s:\* geneseqp2003bs

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Description	Ord demily Roof Lock	17 Comple	Agol7911 Human pro	7 Native	2 Human r	8	v	7 Novel	4 Prosta	7	m	49 Human	94 Human	3 Human	2 Human	1 Human	0 Human	9 Human	8 Human	'n	7 Human	86 Human	5 Human	84 Human	83 Human
ID	AAO17995	AAR47117	AA017911	ABR56227	AA017912	ABR56228	AAG03726	AAU28067	ABR54574	ADB75447	ADB14453	AAB56449	AA017994	AA017993	AA017992	AA017991	AA017990	AA017989	AA017988	AAU28255	AA017987	AA017986	AA017985	AA017984	AA017983
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% Query Match I	100.0	0	100.0	O	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.5	ď.	92.5	90.3	88.8	ė.	84.0	82.6	82.1	79.9	78.4	75.7	73.5
Score	268	268	268	268	268	268	268	268	268	268	268	268	264	255	248	242	238	231	225	221.5	220	214	210	203	197
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5 AAO17982	5 AAO17981	5 AAO17980	5 AAO17979	5 AAO17978	5 AA017977	5 AAO17976	·	5 AAO17974	5 AA017973		5 AAO17971	5 AAO17970	5 AAO17969	5 AAO17968	5 AAO17967	5 AAO17966	5 AA017997	5 AAO17998	5 AAO17999	
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71.3	69	67.5	99	64.2	8.09	59.0	56.7	55.2	53.4	51.1	48.9	47.0	44.0	41.4	39.9	37.7	36.6	36.6	36.6	
191	187	182	177	172	. 163	158	152	148	143	137	131	126	118	111	107	101	86	9	86	
26	27	28	53	30	31	32	33	34	32	36	37	38	39	0	41	42	43	44	45	
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# ALIGNMENTS

Cancer; human; PSP94; prostatic inhibin protein; PIP; HSP1; beta-MSP; beta-microseminoprotein; human seminal plasma inhibin; analogue; prostate secretory protein of 94 amino acids; prostatic adenocarcinoma; stomach acncer; breast cancer; endometrial cancer; ovarian cancer; benign prostate hyperplasia; cytostatic. Human prostate secretory protein of 94 amino acids PSP94 analogue #84. AAO17995 standard; protein; 45 AA. (first entry) 30-AUG-2002 AA017995; RESULT 1 AAO17995 ID AAO1 

Homo sapiens.

WO200233090-A2

15-OCT-2001; 2001WO-CA001463.

16-OCT-2000; 2000CA-02321256. 20-AUG-2001; 2001CA-02355334.

(PROC-) PROCYON BIOPHARMA INC.

Kadhim S; Fraser J, Garde S, Panchal CJ, Baijal-Gupta M,

WPI; 2002-471401/50.

New human prostate secretory protein of 94 amino acids, useful for inhibiting growth of e.g. tumor, prostatic adenocarcinoma, stomach, gastrointestinal, breast, endometrial, and ovarian cancers.

Claím 2; Page 104; 185pp; English.

The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PSP94, also known as prostatic inhibin peptide (PIP), human seminal plasma inhibin (HSPI) and becaming posseminoprotein (Pers-MSP). The analogues are useful for inhibiting growth of tumours, prostatic adenocarcinoma, stomach or gastrointestinal cancer, breast cancer, endometrial, ovarian or other cancers of epithelial secretion, or benign prostate hyperplasia and for treating patients with a disease characterized by elevated levels of FSH. The present sequence is an analogue of the invention

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              pharmaceutical preparation for treating patients with benign prostatic phyperplasts or adenocatroinoma, particularly adenocarroinoma of the prostate or gastrointestinal tract or breast cancer. The preparation can also be used to treat patients with diseases characterised by elevated levels of follicle stimulating hormone (FSH). The PIP and its analogues inhibit tumour growth and descrase FSH levels without adversely affecting testosterone levels. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                       Prostatic inhibin peptide, cancer, adenocarcinoma, breast cancer, hyperplasia, PIP, follicle stimulating hormone, PSH, tumour, inhibition, prostate cancer, gastrointestinal tract.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Prepn. contg. prostatic inhibin peptide or analogues - used for treating benign prostatic hyperplasia, adenocarcinoma or diseases with high FSH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Peptides or analogues of prostatic inhibin peptide (PIP) are used in a
                                                                                 Gaps
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0
                                               100.0%; Score 268; DB 5; Length 45; 100.0%; Pred, No. 1.2e-26;
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                                                                                                               45
                                                                                                                               1 SCYFIPNEGVPGDSTRKCMDLKGNK4PINSEWQTDNCETCTCYET 45
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                                                                            Indels
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                                                                                                            1 SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET
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                                                                                                                                                                                                                                                                                                                                       Complete sequence of human prostatic inhibin peptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           / Match
Local Similarity 100.0%; Pred. No. 2.7e-26; Pes 45; Conservative 0; Mismatches 0;
                                                              ilarity 100.0%; Pred, No. 1.2
Conservative 0; Mismatches
                                                                                                                                                                                                                         AAR47117 standard; peptide; 94 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure; Fig 1; 48pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Panchal CJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     92US-00899535.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     93WO-CA000252
                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                            (revised)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Garde S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 1994-007191/01.
                                                             Local Similarity
es 45; Conserv
               Sequence 45 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 94 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      W09325224-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     16-JUN-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      16-JUN-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                                                      25-MAR-2003
30-JUN-1994
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                                                                                                                                                                                                                                                          AAR47117;
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                                               Query Match
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AAO17911 standard; protein; 94 AA.

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The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PSP94, also known as prostatic inhibin peptide (PIP), human seminal plasma inhibin (HSP1) and betaminatorseminoprotein (bets-MSP). The analogues are useful for inhibiting growth of tumours, prostatic adenocarcinoma, stomach or gastrointestinal cancer, breast cancer, endometrial, ovarian or other cancers of epithelial secretion, or benign prostate hyperplasia and for treating patients with a disease characterized by elevated levels of FSH. The present sequence is the human PSP94 protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human, cytostatic, prostate secretory protein-94; PSP-94; hypercalcaemia of malignancy, carcinoma, prostate cancer; breast cancer; parathyroid hormone related peptide; PTHrP; skeletal metastasis.
                                                                                                                beta-microseminoprotein, human seminal plasma inhibin, analogue, prostate secretory protein of 94 amino acids, prostatic adenocarcinoma; stomach cancer; breast cancer; endometrial cancer; ovarian cancer; benign prostate hyperplasia; cytostatic.
                                                                                                     Cancer; human; PSP94; prostatic inhibin protein; PIP; HSP1; beta-MSP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New human prostate secretory protein of 94 amino acids, useful for inhibiting growth of e.g. tumor, prostatic adenocarcinoma, stomach, gastrointestinal, breast, endometrial, and ovarian cancers.
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                                                                                                                                                                                                                                                                                                                                                                                                                                               Kadhim S;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 45
                                                                    Human prostate secretory protein of 94 amino acids PSP94.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     100.0%; Score 268; DB 5; Length 9
100.0%; Pred. No. 2.7e-26;
ive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Native Human prostate secretory protein-94 (PSP-94).
                                                                                                                                                                                                                                                                                                                                                                                                                                             Baijal-Gupta M, Fraser J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure; Page 73; 185pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABR56227 standard; protein; 94 AA.
                                                                                                                                                                                                                                                                                                                                                                                                           (PROC-) PROCYON BIOPHARMA INC
                                                                                                                                                                                                                                                                                                                                                                          20-AUG-2001; 2001CA-02355334.
                                                                                                                                                                                                                                                                                                                     15-OCT-2001; 2001WO-CA001463.
                                                                                                                                                                                                                                                                                                                                                       16-OCT-2000; 2000CA-02321256.
                                  (first entry)
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Best Local Similarity 100.
Matches 45; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 94 AA;
                                                                                                                                                                                                                                              WO200233090-A2.
                                                                                                                                                                                                                Homo sapiens.
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                                  30-AUG-2002
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AA017911;
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ABR56227
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New human prostate secretory protein of 94 amino acids, useful for inhibiting growth of e.g. tumor, prostatic adenocarcinoma, stomach, gastrointestinal, breast, endometrial, and ovarian cancers.

2; Page 73-74; 185pp; English

Claim

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Use of prostate secretory protein-94 for treating hypercalcemia of malignancy and reducing skeletal metastasis arising from carcinomas, prostate and breast cancers.
                                                                                                                                      Disclosure, Page 35; 61pp; English.
                       08-NOV-2002; 2002WO-CA001737.
                                      08-NOV-2001; 2001CA-02361736
                                                                      Shukeir N,
                                                                                      WPI; 2003-441476/41
                                                       (PROC-) PROCYON
                                                                                                                                                                                                                                      Sequence 94 AA;
                                                                      Rabbani SA,
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Newman

Panchal CJ,

The present invention relates to the use of prostate secretory protein-94 (PSP-94; the present sequence) for treating a patient suffering from hypercalcaemia of malignancy. PSP-94 is useful for treating a patient suffering from hypercalcaemia of malignancy arising from carcinomas, prostate and breast cancer. The PSP-94 is also useful for reducing parathyroid hormone related peptide (PTHrP) levels in a patient in need and reducing the development of skeletal metastasis. The PSP-94 is also used for the manufacture of a pharmaceutical composition for the treatment of hypercalcaemia of malignancy and/or skeletal metastasis

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Gaps
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  Length 94;
                                                                            45
                                                                                                    1 SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 45
                                    Indels
                                                                            1 SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET
Query Match 100.0%; Score 268; DB 7; Best Local Similarity 100.0%; Pred. No. 2.7e-26; Matches 45; Conservative 0; Mismatches 0;
    Query Match
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RESULT 5 AAO17912

AA017912 standard; protein; 102 AA017912;

(first entry)

30-AUG-2002

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Human prostate secretory protein of 94 amino acids PSP94 analogue #1.

bete-microseminoprotein; human seminal plasma inhibin; analogue; prostate secretory protein of 94 amino acids; prostatic adenocarcinoma; stomach cancer; breast cancer; endometrial cancer; ovarian cancer; benign prostate hyperplasia; cytostatic. Cancer; human; PSP94; prostatic inhibin protein; PIP; HSPI; beta-MSP; 

sapiens Ношо

WO200233090-A2.

25-APR-2002

15-OCT-2001; 2001WO-CA001463

16-OCT-2000; 2000CA-02321256. 20-AUG-2001; 2001CA-02355334.

(PROC-) PROCYON BIOPHARMA INC

۵, Baijal-Gupta M, Panchal CJ, Garde S,

WPI; 2002-471401/50.

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The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PSP94, also known as prostatic hinhibin peptide (PIP), human seminal plasma inhibin (HSPI) and betamicroseminoprotein (Dets-MSP)). The analogues are useful for inhibiting growth of tumours, prostatic adenocarcinoma, stomach or gastrointestinal cancer, breast cancer, endometrial, ovarian or other cancers of epithelial secretion, or benign prostate hyperplasia and for treating patients with a disease characterized by elevated levels of FSH. The present sequence is an analogue of the invention
                                                                                                                                                                                                                                                                                                                                                                             Gaps
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les 45; Conserv
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Matches
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ABR56228 standard; protein; 102 AA. RESULT 6 ABR56228

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ABR56228;

Recombinate prostate secretory protein-94 (PSP-94).

Cytostatic, prostate secretory protein-94, PSP-94, hypercalcaemia of malignancy; carcinoma, prostate cancer, breast cancer; parathyroid hormone related peptide; PTHrP; skeletal metastasis.

Unidentified.

WO2003039576-A1.

15-MAY-2003

08-NOV-2002; 2002WO-CA001737;

08-NOV-2001; 2001CA-02361736.

(PROC-) PROCYON BIOPHARMA INC.

Newman C; Rabbani SA, Shukeir N, Panchal CJ,

WPI; 2003-441476/41

Use of prostate secretory protein-94 for treating hypercalcemia of malignancy and reducing skeletal metastasis arising from carcinomas, prostate and breast cancers. 

Disclosure; Page 35-36; 61pp; English.

The present invention relates to the use of prostate secretory protein-94 (PSP-94; the present sequence) for treating a patient suffering from typercalcaemia of malignancy. PSP-94 is useful for treating a patient suffering from hypercalcaemia of malignancy arising from carcinomas, prostate and breast cancer. The PSP-94 is also useful for reducing parathyroid hormone related peptide (PTH-P) levels in a patient in need and reducing the development of skeletal metastasis. The PSP-94 is also used for the manufacture of a pharmaceutical composition for the treatment of hypercalcaemia of malignancy and/or skeletal metastasis

Human; secreted protein; arthritis; Crohn's disease; sepsis;

ID No 236.

Novel human secretory protein, Seg

(first entry)

18-DEC-2001

AAU28067;

AAU28067 standard; protein; 114 AA.

AAU28067

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                                                                                                                                                                                                                                                                                                                                                            Human, 5' EST; expressed sequence tag; secreted protein, cDNA isolation, gene therapy, chromosome mapping.
                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   diagnostic, forensic, gene therapy and chromosome mapping procedures.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New nucleic acid that is a 5' expressed sequence tag (5' EST) for obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for
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                                                                                                                         0; Indels
                                                                                                   1 SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET
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llarity 100.0%; Pred. No. 3.4e-26;
Conservative 0; Mismatches 0;
                               Score 268; DB 7;
Pred. No. 3e-26;
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                                                                Mismatches
                                                                                                                                                                                                                                                                                                                               Human secreted protein, SEQ ID NO: 7807
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                                                                                                                                                                                                                          AAG03726 standard; protein; 114 AA
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0
                                 100.0%;
100.0%;
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                                 Query Match
Best Local Similarity 100.
Matches 45; Conservative
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Matches 45; Conserv
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Sequence 102 AA;
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The invention relates to novel isolated human secreted polypeptides (I) and (II) are useful for treating and polymucleotides (II). (I) and (II) are useful for treating conditions such as arthritis, nephritis. Crohn's disease, ischamatory conditions such as arthritis, nephritis. Crohn's disease, ischamatory conditions such as arthritis, nephritis. Crohn's disease, involved in increasing haematopoiesis, stem cell survival, bone growth and remodeling. (I). (II) and modulators of (II) are useful for prophylaxis or treatment of one or more cancers. (II) is also useful for creating transgenic animals useful for studying the in vivo activities of the polypeptide as well as for studying modulators of the polypeptides. (I) induces the proliferation of neural cells and regeneration of nerve and brain tissue and is useful for the treatment of central and continuous system diseases and neuropathies, such as Alzhelmer's, contivity, regulation of haematopoiesis and is useful for treating myeloid or creating orders, platelet disorders such as thrombocytopenia and for regeneration of bone, cartilage, tendon, ligament and/or nerve tissue growth, and in tissue repair, healing of burns, incisions, ulcers, or lymphylory and in tissue repair, healing of burns, incisions, ulcers, for treating osteoporosis, osteoarthitis, bone degeneration and treatment of lung or liver fibrosis, or periodontal disease. Furthermore, (I) is also useful for gut protection or regeneration and treatment of lung or liver fibrosis, or periodontal disease. Furthermore immunodeficiency (SCID), bacterial or fungal infections, autoimmune disorders en multiple sclerosis, allergic theumatoid arthritis, diabetes mellitus, myasthenia gravis, allergic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ď.
                                                                                                                                                                           ischaemia-reperfusion injury; haematopoiesis; cancer; seppisis; snock; transgenic animal; Alzheimer's disease; Parkinson's disease; burn; amyotrophic lateral sclerosis; platelet disorder; thrombocytopenia; ulcer; osteoporosis; bone degenerative disorder; periodnial disease; gut protection; lung; liver fibrosis; immune deficiency; infection; severe combined immunodeficiency; SCID; autoimmune disorder; allergy; multiple sclerosis; rheumatoid arthritis; diabetes mellitus; asthma; fertility; analgesic; pain; antigen.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C, Wehrman T, Ren F, Ma Y, Zhou Zhang J, Chen R, Xue AJ, Wang J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Novel polypeptides and nucleic acids obtained from cDNA libraries prepared from various human tissues, for diagnosis and treatment of cancer, neurological, inflammatory, and autoimmune disorders.
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Drmanac RT,
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17-UUN-2000; 2000US-00596193.
14-UUL-2000; 2000US-00516847.
19-SEP-2000; 2000US-0066353.
20-OCT-2000; 2000US-00693267.
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Yang Y,
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Zhao QA,
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Gaps

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Indels

45

21 SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCCYET 65

1 SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET

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Gaps

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Mismatches

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45; Conservative

Matches

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us-09-977-406a-88.rag

45 Indels

SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET

RESULT

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1 SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWOTDNCETCTCYET

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reactions and conditions, such as asthma or other respiratory problems. In addition, (1) affects biorhythms or circadian cycles of rhythms, fertility, metabolism, catabolism, anabolism, storage or elimination of dietary fat, lipid, protein, carbohydrate, vitamins, minerals, provides analgesic effects or other pain reducing effects, immunoglobulin like activity and can act as an antigen in a vaccine composition to raise an immune response. AAU28020-AAU28395 represent novel human secreted protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New prostate-specific proteins and genes, useful in gene therapy, particularly for stimulating an immune response in a patient, or treating prostate cancer in a patient, as well as for diagnosing prostate cancer in a patient.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present invention relates to novel prostate-specific proteins (PSP) and their coding sequences. The PSPs and their coding sequences are useful for stimulating an immune response in a patient, or for treating prostate cancer in a patient and for determining, detecting or diagnosing the presence of a cancer in a patient. The present sequence was used to illustrate the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                χ;
                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Xu J, Dillon DC, Mitcham JL, Harlocker SL, Jiang Y, Henderson R Kalos MD, Fanger GR, Retter MW, Stolk JA, Day CH, Vedvick TS; Carter D, Li SX, Wang A, Skelky YAW, Hepler WT, Hural J; Moneill PD, Houghton RL, Vinals Y De BassolsC, Foy TW, Watanabe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Cytostatic; gene therapy; prostate-specific protein; PSP; human; immune response; prostate cancer.
                                                                                                                                                                                                                                   .
                                                                                                                                                                                                 Length 114;
                                                                                                                                                                                                                                                                   1 SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 45
                                                                                                                                                                                             Score 268; DB 4; Length 1
Pred. No. 3.4e-26;
Mismatches 0; Indels
                                                                                                                                                                                                                                                                                      SCYFI PNEGVPGDSTRKCMDLKGMPINSEWQTDNCETCTCYET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Prostatic secretory protein SEQ ID 1003
                                                                                                                          amino acid sequences of the invention
                                                                                                                                                                                                                                                                                                                                                                                             ABR54574 standard; protein; 114 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 2; Page 666; 691pp; English.
                                                                                                                                                                                                                               ;
                                                                                                                                                                                               100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                09-MAY-2001; 2001US-00852911.
29-JUN-2001; 2001US-00895814.
10-DEC-2001; 2001US-00012896.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  09-MAY-2002; 2002WO-US014753
                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                               45; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (CORI-) CORIXA CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2003-167130/16.
                                                                                                                                                                                           Query Match
Best Local Similarity
                                                                                                                                                             Sequence 114 AA;
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Mcneill PD,
Deng T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 28-AUG-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Cytostatic;
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ABR54574
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The invention relates to newly discovered cancer markers associated with the cancerous state of prostate cells. Also disclosed is a method of assessing whether a patient is afflicted with prostate cancer. The method of the invention involves assessing whether a patient is afflicted with prostate cancer. The method of the invention involves assessing whether a patient is afflicted with prostate cancer by comparing the level of expression of the marker in a control non-prostate cancer sample, where a significant increase in the level of expression of the marker in the patient sample and the normal control non-prostate cancer.

Nucleic acids of the invention is afflicted with prostate cancer.

Nucleic acids of the invention are useful for diagnosing or treating prostate cancer, and may be useful in gene therapy. Sequences given in ADB75177-ADB7531 represent marker cDNA and proteins. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               treating prostate
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gorbatcheva
Anderson D;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        , Endege WO, Gannavarapu M, Wonsey AM, Glatt K, Zhao X,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               or
                                                                                                                                                         Prostate; cancer; cytostatic; gene therapy; marker.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ch 100.0%; Score 268; DB 7; Similarity 100.0%; Pred. No. 3.4e-26; 45; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New nucleic acid molecule, useful for diagnosing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; SEQ ID NO 271; 99pp; English
                  Ä
                ADB75447 standard; protein; 114
                                                                                                                      Prostate cancer marker protein.
                                                                                                                                                                                                                                                                                                                             25-JUL-2001, 2001US-0307982P.
22-AVG-2001, 2001US-0314356P.
25-SEP-2001, 2001US-032020P.
12-DEC-2001, 2001US-0341746P.
05-MAR-2002, 2002US-0362158P.
                                                                                                                                                                                                                                                                                               25-JUL-2002; 2002WO-US023913
                                                                                                                                                                                                                                                                                                                                                                                                                                        (MILL-) MILLENNIUM PHARM INC
                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Monahan JE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Kamatkar S,
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Best Local Similarity
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                                                                                   04-DEC-2003
                                                                                                                                                                                         Homo sapiens
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                                                                                                                                                                                                                                                            06-FEB-2003,
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                                                  ADB75447;
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Matches
ADB75447
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RESULT 11

Length 114;

Score 268; DB 6; Pred. No. 3.4e-26;

100.0%;

Query Match Best Local Similarity

Sequence 114 AA;

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The invention relates to an isolated polypeptide comprising no more than 11-542 amino acids of ADB13563 comprising a sequence ADB14487. The peptides comprise a fragment ADB13563 of that contain naturally processed T-cell epitopes for 3 class I major histocompatibility complex (MHC) alleles. ADB13563 is a polypeptide encoded by a human prostate specific CDNA, one of 648 disclosed as new. Also included are nucleic acids
                                                                                                               Human; prostate specific cDNA, cytostatic; immunostimulant; gene therapy; cell therapy; vaccine; T-cell epitope; class I major histocompatibility complex allele; MHC; prostate cancer; tumour; antigen presenting cell.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  polypeptide for use in a vaccine for stimulating an immune for treating or diagnosis cancer, preferably prostate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              encoding the proteins and peptides, expression vectors, a host cell transformed with the vector, an isolated antibody (or antigen binding fragment) that specifically binds to the protein or peptide, detecting
                                                                                           Human prostatic secretory protein (PSP).
             ADB14453 standard; protein; 114 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 34; Page; 101pp; English.
                                                                                                                                                                                                                                                                                                  970S-00806099.
970S-00094804.
980S-00010607.
980S-00115453.
980S-00115481.
990S-00232149.
990S-00382616.
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2001US-00759143.
2001US-00780669.
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2000US-00636215
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2002US-00144678
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2001US-00895814
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                                                                 (first entry)
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                                                                                                                                                                                                                     US2003185830-A1.
                                                                                                                                                                                           Homo sapiens.
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                                                                  18-DEC-2003
                                                                                                                                                                                                                                              02-OCT-2003
                                       ADB14453;
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ADB14453
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the presence of a cancer in a patient (comprising contacting a patient cample with a binding agent that binds to the peptides or a polypeptide to a appearing as ABD18558, detecting the amount of polypeptide to a predetermined to the agent and comparing the amount of polypeptide to a predetermined cutoff value to determine the presence of cancer), a fusion protein comprising the appearing or proteins, stimulating or expanding T cells specific for a tumour protein comprising contacting T cells with the specific for a tumour protein composition comprising the peptides, concer in a patient and treating a composition comprising the peptides, concer in a patient and treating prostate cancer in a patient with the peptides or antigen presenting cells that express the peptides so that the T cells proliferate, and administering the concertion contact in a patient. The peptides for an oligonucleotide that hybridises to nucleic acid encoding them), is used to detect the presence of cancer in a patient. The peptides, nucleic acids encoding, or antigen presenting cells expressing the nucleic acids are used to antigen set in a patient. The peptides, nucleic acids, antibodies, fusion proteins, T cell populations or antigen contact in a patient when a tenneur protein. The peptides, nucleic acids, antibodies, fusion proteins, T cell populations or antigen contact in a patient when a number of a profess antigen when the contact in a patient of a minimum response or treat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human, prostate cancer, prostate cancer antigen, detection, diagnosis, neuroprotective, cytostatic, cardicactive, immunomodulatory, muscular; vuncaray, gastrointestinal, nephrotropic, antiinfective, gynaecological, antibacterial, gene therapy, neural, immune, reproductive, renal, gastrointestinal, pulmonary, cardiovascular; proliferative disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           prostate cancer in a patient. The present sequence is a prostate specific protein of the invention. Note: Except where otherwise indicated, the sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from USPTO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ch 100.0%; Score 268; DB 7; Length 114; Similarity 100.0%; Pred. No. 3.4e-26; 45; Conservative 0; Mismatches 0; Indels C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SCYFI PNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           at segdata.uspto.gov/sequence.html?DocID=20030185830
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAB56449 standard; protein; 132 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             99US-0124270P
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 114 AA;
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Prostate cancer associated

Homo sapiens 30-AUG-2002 25-APR-2002 invention AA017994; Garde S, Human RESULT 13 à d

ö AAF15566 to AAF16505 encode the human prostate cancer associated proteins, called prostate cancer antigens, given in AAB56363 to AAB57302. The prostate cancer antigens can have neuroprotective, evrostatic, cardioactive, immunomodulatory, muscular, vulnerary, gastrointestinal, nephrotropic, antinifective, gynaecological and antibacterial activities, and can be used in gene therapy. The prostate cancer antigen polynucleotides may be used for detection of prostate cancer, chromosome identification, as chromosome markers, and for numerous other diagnostic or research purposes. The prostate cancer antigens may be used to treat disorders such as neural, immune, muscular, reproductive, gastrointestinal, pulmonary, cardiovascular, renal, and proliferative disorders, wounds, and infectious diseases. AAF16506 to AAF16514 to ssociated gene sequences, referred to as prostate cancer for treatment, prevention, and diagnosis of disorders Cancer; human; PSP94; prostatic inhibin protein; PIP; HSPI; beta-MSP; beta-microseminoprotein; human seminal plasma inhibin; analogue; prostate secretory protein of 94 amino acids; prostatic adenocarcinoma; stomach cancer; breast cancer; endometrial cancer; ovarian cancer; secretory protein of 94 amino acids PSP94 analogue #83. Gaps The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PSP94, also known as prostatic New human prostate secretory protein of 94 amino acids, useful for inhibiting growth of e.g. tumor, prostatic adenocarcinoma, stomach, gastrointestinal, breast, endometrial, and ovarian cancers. .. Length 132; ŝ Kadhim 45 39 SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 83 0; Indels 1 SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET Fraser J, ۳ . 100.0%; Score 268; DB 3; 100.0%; Pred. No. 4e-26; ive 0; Mismatches C benign prostate hyperplasia; cytostatic. Baijal-Gupta M, Claim 11; Page 1457; 2338pp; English. Claim 2; Page 103; 185pp; English. AA017994 standard; protein; 44 AA (PROC-) PROCYON BIOPHARMA INC 16-OCT-2000; 2000CA-02321256. 20-AUG-2001; 2001CA-02355334. 15-OCT-2001; 2001WO-CA001463. (first entry) Ouery Match
Best Local Similarity luv...
Best Local Similarity luv...
As 45; Conservative antigens, useful for tre such as prostate cancer. Panchal CJ, WPI; 2002-471401/50. Sequence 132 AA; prostate WO200233090-A2

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inhibin peptide (PIP), human seminal plasma inhibin (HSPI) and beta-
microseminoprotein (bets-MSP)). The analogues are useful for inhibiting
growth of tumours, prostatic adenocarcinoma, stomach or gastrointestinal
cancer, breast cancer, endometrial, ovarian or other cancers of
spithalial secretion, or benign prostate hyperplasta and for treating
patients with a disease characterized by elevated levels of FSH. The
present sequence is an analogue of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cancer; human; PSP94; prostatic inhibin protein; PIP; HSPI; beta-MSP; beta-microseminoprotein; human seminal plasma inhibin; analogue; prosteter secretory protein of 94 amino acids; prostatic adenocarcinoma; stomach cancer; breast cancer; endometrial cancer; ovarian cancer; benign prostate hyperplasia; cytostatic.
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                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human prostate secretory protein of 94 amino acids PSP94 analogue
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                                                                                                                                                                            Length 44;
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                                                                                                                                                                                         100.0%; Pred. No. 3.7e-26;
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100.0%; Pred. No. 5.1e-25;
ive 0; Mismatches 0;
                                                                                                                                                                            Score 264; DB 5;
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                                                                                                                                                                                                                                                                                                                                                                    protein; 43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (PROC-) PROCYON BIOPHARMA INC
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20-AUG-2001; 2001CA-02355334.
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                                                                                                                                                                                                          44; Conservative
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                                                                                                                                                                                           Similarity
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Best Local S:
Matches 44
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The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PSP94, also known as prostatic hinhibin peptide (PTP), human seminal plasma inhibin (HSPI) and betaminoscominoprotein (beta-MSP). The analogues are useful for inhibiting growth of tumours, prostatic adenocarcinoma, stomach or gastrointestinal cancer, breast cancer, endometrial, ovarian or other cancers of epithelial secretion, or benign prostate hyperplasia and for treating patients with a disease characterized by elevated levels of FSH. The present sequence is an analogue of the invention
                                                                                                                                                                                                                                                                           Cancer; human; PSP94; prostatic inhibin protein; PID; HSPI; beta-MSP; bet-microseminoprotein; human seminal plasma inhibin; analogue; prostates secretory protein of 94 amino acids; prostatic adenocarcinoma; stomach cancer; breast cancer; endometrial cancer; ovarian cancer; benign prostate hyperplasia; cytostatic.
                                                                                                                                                                                                                                           Human prostate secretory protein of 94 amino acids PSP94 analogue #81.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New human prostate secretory protein of 94 amino acids, useful for inhibiting growth of e.g. tumor, prostatic adenocarcinoma, stomach, gastrointestinal, breast, endometrial, and ovarian cancers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Kadhim S;
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92.5%; Score 248; DB 5; Length 42
Best Local Similarity 100.0%; Pred. No. 3.9e-24;
Matches 42; Conservative 0; Mismatches 0; Indels
45
                         1 YFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 43
3 YFIPNEGVPGDSTRKCMDLKGNKHPINSEWOTDNCETCTCYET
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 2; Page 103; 185pp; English.
                                                                                                                               AAO17992 standard; protein; 42 AA
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20-AUG-2001; 2001CA-02355334.
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                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens.
                                                                                                                                                                                                         30-AUG-2002
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                                                                                                                                                                     AA017992;
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Search completed: March 11, 2004, 17:52:41 Job time : 52.621 secs

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March 11, 2004, 17:56:07; Search time 17.4194 Seconds (without alignments) 243.305 Million cell updates/sec
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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geneseqp2001s:\* geneseqp2002s:\* geneseqp2003as:\* geneseqp2003bs:\*

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Post-processing: Listing first 45 summaries

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### Human pro Human pro Aao17915 Human pro Abr56231 Prostate Human pro Human Human Human Human Нишап Human Human Human Human Human Human Human Human Human Human Human Human Human Description Aao17926 Aao17976 Aao17921 Aao17970 Aao17966 Aao17918 Aao17919 Aao17920 Aa017968 Aao17969 Aa017922 Aao17971 Aa017917 Aa017967 Aa017923 Aa017972 Aa017973 Aa017924 Aa017925 Aao17974 Aa017975 SUMMARIES AA017976 AA017927 AA017977 AA017969 4A01797. AAO17924 4A017925 Query Match Length DB Score Result No.

Human Human Human Human Human	Aaol/980 Human pro Aaol7997 Human PSP Aaol7931 Human pro Aaol7981 Human pro Aaol7932 Human pro	Human Human Human Human	Adol/935 Human pro Adol/936 Human pro Adol/936 Human pro Adol/985 Human pro Adol/937 Human pro Adol/936 Human pro
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AAO1792 AAO1797 AAO1793 AAO1793	AAC1798 AAC1799 AAC1793 AAC1798	AAO1793 AAO1798 AAO1798 AAO1798	AAO1793 AAO1793 AAO1793 AAO1793 AAO1793
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## ALIGNMENTS

Cancer, human; PSP94; prostatic inhibin protein; PIP; HSP1; beta-MSP; beta-microseminoprotein; human seminal plasma inhibin; analogue; prostate secretory protein of 94 amino acids; prostatic adenocarcinoma; stomach cancer; breast cancer; endometrial cancer; ovarian cancer; benign prostate hyperplasia; cytostatic. Human prostate secretory protein of 94 amino acids PSP94 analogue #4 Kadhim S; Fraser J, Baijal-Gupta M, AA017915 standard; peptide; 15 AA (PROC-) PROCYON BIOPHARMA INC 15-OCT-2001; 2001WO-CA001463. 16-OCT-2000; 2000CA-02321256. 20-AUG-2001; 2001CA-02355334. (first entry) Garde S; Panchal CJ, WO200233090-A2. Homo sapiens. 30-AUG-2002 25-APR-2002. AA017915; RESULT 1 AAO17915 

WPI; 2002-471401/50.

New human prostate secretory protein of 94 amino acids, useful for inhibiting growth of e.g. tumor, prostatic adenocarcinoma, stomach, gastrointestinal, breast, endometrial, and ovarian cancers.

Claim 1; Page 74; 185pp; English.

The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PSP94, also known as prostatic inhibin peptide (PIP), human seminal plasma inhibin (BSP1) and becaminorseminoprotein (Dets-MSP)). The analogues are useful for inhibiting growth of tumours, prostatic adenocarcinoma, stomach or gastrointestinal cancer, breast cancer, endometrial, ovarian or other cancers of epithelial secretion, or benign prostate hyperplasia and for treating patients with a disease characterized by elevated levels of FSH. The present sequence is an analogue of the invention

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The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (BSP94, also known as prostatic inhibin peptide (PIP), human semilar plasma inhibin (HSPI) and betamineroseminoprotein (bets-MSP). The analogues are useful for inhibiting growth of tumours, prostatic adenocarcinoma, stomach or gastrointestinal cancer, breast cancer, endometrial, ovarian or other cancers of epithelial secretion, or benign prostate hyperplasia and for treating patients with a disease characterized by elevated levels of FSH. The present sequence is an analogue of the invention
                                                                                                                                           Cancer; human; PSP94; prostatic inhibin protein; PIP; HSPI; beta-MSP; beta-microseminoprotein; human seminal plasma inhibin; analogue; prostate secretory protein of 94 amino acids; prostatic adenocarcinoma; stomach cancer; breast cancer; endometrial cancer; ovarian cancer; benign prostate hyperplasia; cytostatic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human prostate secretory protein of 94 amino acids PSP94 analogue #55.
                                                                                                             Human prostate secretory protein of 94 amino acids PSP94 analogue #6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New human prostate secretory protein of 94 amino acids, useful for inhibiting growth of e.g. tumor, prostatic adenocarcinoma, stomach, gastrointestinal, breast, endometrial, and ovarian cancers.
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AAO17917 standard; peptide; 16
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20-AUG-2001; 2001CA-02355334.
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Best Local Similarity
Matches 15; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention relates to the use of prostate secretory protein-94 (PSP-94; ABR56228) for treating a patient suffering from hypercalcaemia of malignancy. PSP-94 is useful for treating a patient suffering from hypercalcaemia of malignancy arising from carcinomas, prostate and breast cancer. The PSP-94 is also useful for reducing parathyroid hormone related peptide (PTHrP) levels in a patient in need and reducing the development of Skeletal metastasis. The PSP-94 is also used for the manufacture of a pharmaceutical composition for the treatment of hypercalcaemia of malignancy and/or skeletal metastasis. The present sequence is a peptide fragment of PSP-94, used to illustrate the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     breast cancer;
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                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Use of prostate secretory protein-94 for treating hypercalcemia of malignancy and reducing skeletal metastasis arising from carcinomas, prostate and breast cancers.
                                                                                                                                                                                                                                                                                                                                                                                                                                             Cytostatic; prostate secretory protein-94; PSP-94; human; hypercalcaemia of malignancy; carcinoma; prostate cancer; breast parathyroid hormone related peptide; PTHrP; skeletal metastasis.
                                                                                                                                                                                                                                                                                                                                                                                                           Prostate secretory protein-94 (PSP-94) peptide fragment PCK3145.
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                                                          Score 15; DB 5; Length 15; Pred. No. 1.7e-10;
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                                                                                                     Mismatches
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                                                          100.0%; Sc
100.0%; Pr
ive 0;
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                                                            Query Match 100.
Best Local Similarity 100.
Matches 15; Conservative
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Matches 15, Conserv
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                         Sequence 15 AA;
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20-NOV-2003

ABR56231;

RESULT 2 ABR56231

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15-MAY-2003

Homo

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Query Match

RESULT 3

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Kadhim S;

Fraser J,

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Gaps

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Indels

Homo sapiens. AA017967; ŝ Query Match Garde Matches RESULT 5 AA017967 P ð

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The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PSP94, also known as prostatic inhibin peptide (PIP), human seminal plasma inhibin (HSPI) and beta-microseminoprotein (bets-MSP). The analogues are useful for inhibiting growth of tumours, prostatic adenocarcinoma, stomach or gastrointestinal cancer, breast cancer, endometrial, ovarian or other cancers of epithelial secretion, or benign prostate hyperplasia and for treating patients with a disease characterized by elevated levels of PSH. The present sequence is an analogue of the invention
                                                                                       New human prostate secretory protein of 94 amino acids, useful for inhibiting growth of e.g. tumor, prostatic adenocarcinoma, stomach, gastrointestinal, breast, endometrial, and ovarian cancers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAO17918 standard; peptide; 17 AA.
                                                                                                                                                                    Claim 2; Page 94; 185pp; English.
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                Panchal CJ,
                                                    WPI; 2002-471401/50
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                                                                                                                                                                                                                      (PROC-) PROCYON BIOPHARMA INC
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es 15; Conserv
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100.0%; Score 15; DB 5; Length 17; 100.0%; Pred. No. 1.9e-10; ive 0; Mismatches 0; Indels

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Kadhim

Fraser J,

Baijal-Gupta M,

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Cancer; human; PSP94; prostatic inhibin protein; PIP; HSP1; beta-MSP; beta-microseminoprotein; human seminal plasma inhibin; analogue; prostate secretory protein of 94 amino acids; prostatic adenocarcinoma; stomach cancer; breast cancer; endometrial cancer; ovarian cancer;
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                                                                         Human prostate secretory protein of 94 amino acids PSP94 analogue
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                                                                                                                                                                                                                                                                                                         benign prostate hyperplasia; cytostatic
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(first entry)
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inhibin peptide (PIP), human seminal plasma inhibin (HSPI) and betamicroseminoprotein (bets-MSP)). The analogues are useful for inhibiting growth of tumours, prostatic adenocarcinoma, stomach or gastrointestinal cancer, breast cancer, endometrial, ovarian or other cancers of epithelial secretion, or benign prostate hyperplasia and for treating patients with a disease characterized by elevated levels of FSH. The present sequence is an analogue of the invention
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20-AUG-2001; 2001CA-02355334.
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Best Local Similarity
Matches 15; Conserv
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The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PSP94, also known as prostatic inhibin peptide (PIP), human seminal plasma inhibin (HSPI) and beta-microseminoprotein (bets-MSP). The analogues are useful for inhibiting growth of tumours, prostatic adenocarcinoma, stomach or gastrointestinal cancer, breast cancer, endometrial, ovarian or other cancers of epithelial secretion, or benign prostate hyperplasia and for treating patients with a disease characterized by elevated levels of PSH. The
                                                                                                                                                                                                                              Cancer; human; PSP94; prostatic inhibin protein; PIP; HSPI; beta-MSP; beta-microseminoprotein; human seminal plasma inhibin; analogue; prostates seretory protein of 94 amino acids; prostatic adenocarcinoma; stomach cancer; breast cancer; endometrial cancer; ovarian cancer; benign prostate hyperplasia; cytostatic.
                                                                                                                                                                                                 Human prostate secretory protein of 94 amino acids PSP94 analogue #57,
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                                                                                                          AA017968 standard; peptide; 18
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                       1 EWQTDNCETCTCYET
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Best Local Similarity
Matches 15; Conserv
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Query Match
Best Local Similarity 100.0%; Pred. No. 2e-10;
Matches 15; Conservative 0; Mismatches 0; Indels

The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (RSP94, also known as prostatic inhibin peptide (PIP), human seminal plasma inhibin (HSPI) and betamiroroseminoprotein (bets-MSP). The analogues are useful for inhibiting growth of tumours, prostatic adenocarcinoma, stomach or gastrointestinal cancer, breast cancer, endometrial, ovarian or other cancers of epithelial secretion, or beingin prostate hyperplasia and for treating patients with a disease characterized by elevated levels of FSH. The beta-microseminoprotein; human seminal plasma inhibin; analogue; prostate secretory protein of 94 amino acids; prostatic adenocarcinoma; stomach cancer; breast cancer; endometrial cancer; ovarian cancer; benign prostate to varian cancer; prostate secretory protein of 94 amino acids PSP94 analogue #58 prostate secretory protein of 94 amino acids PSP94 analogue #9 New human prostate secretory protein of 94 amino acids, useful for inhibiting growth of e.g. tumor, prostatic adenocarcinoma, stomach, gastrointestinal, breast, endometrial, and ovarian cancers. present sequence is an analoque of the invention AA017920 standard; peptide; 19 AA Claim 2; Page 95; 185pp; English. (PROC-) PROCYON BIOPHARMA INC. 20-AUG-2001; 2001CA-02355334. 15-OCT-2001; 2001WO-CA001463 16-OCT-2000; 2000CA-02321256 1 EWQTDNCETCTCYET Panchal CJ, WPI; 2002-471401/50. Sequence 19 AA; WO200233090-A2 WO200233090-A2 Homo sapiens. Homo sapiens, 30-AUG-2002 25-APR-2002 AA017920; Garde S, Query Match Human Human Best Loc Matches 엄 ò

.. Length 19; 100.0%; Score 15; DB 5; I 100.0%; Pred. No. 2.1e-10; Mismatches .; 0 Conservative Local Similarity Les 15; Conserv

15 13 EWQTDNCETCTCYET (first entry)

beta-microseminoprotein, human seminal plasma inhibin, analogue, prostate secretory protein of 94 amino acids, prostatic adenocarcinoma, stomach cancer, breast cancer, endometrial cancer, ovarian cancer, Cancer; human; PSP94; prostatic inhibin protein; PIP; HSPI; beta-MSP;

benign prostate hyperplasia; cytostatic.

15-OCT-2001; 2001WO-CA001463 

25-APR-2002

16-OCT-2000; 2000CA-02321256. 20-AUG-2001; 2001CA-02355334.

(PROC-) PROCYON BIOPHARMA INC

Fraser J, Kadhim S; Garde S, Panchal CJ, Baijal-Gupta M,

WPI; 2002-471401/50.

New human prostate secretory protein of 94 amino acids, use inhibiting growth of e.g. tumor, prostatic adenocarcinoma, gastrointestinal, breast, endometrial, and ovarian cancers.

Claim 2; Page 77; 185pp; English

The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (BSP94, also known as prostatic inhibin peptide (PIP), human seminal plasma inhibin (HSPI) and beta-microseminoprotein (bets-MSP). The analogues are useful for inhibiting growth of tumours, prostatic adenocarcinoma, stomach or gastrointestinal acancer, breast acancer, andometrial, ovarian or other cancers of epithelial secretion, or benign prostate hyperplasia and for treating patients with a disease characterized by elevated levels of FSH. The present sequence is an analogue of the invention

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Fraser J, Kadhim

Baijal-Gupta M,

Sequence 19 AA;

Gaps . Length 19; 0; Indels Score 15; DB 5; I Pred. No. 2.1e-10; Mismatches 100.0%; Sco 100.0%; Pre Local Similarity 100. es 15; Conservative Query Match Matches

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RESULT 11

AA017921 standard; peptide; 20 AA

AA017921;

(first entry) 30-AUG-2002

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Human prostate secretory protein of 94 amino acids PSP94 analogue #10

Cancer; human; PSP94; prostatic inhibin protein; PIP; HSPI; beta-MSP; beta-microseminoprotein; human seminal plasma inhibin; analogue; prostate secretory protein of 94 amino acids; prostatic adenocarcinoma; stomach cancer; breast cancer; endometrial cancer; ovarian cancer; benign prostate hyperplasia; cytostatic 

Homo sapiens

WO200233090-A2.

25-APR-2002.

15-OCT-2001; 2001WO-CA001463

16-OCT-2000; 2000CA-02321256. 20-AUG-2001; 2001CA-02355334.

(PROC-) PROCYON BIOPHARMA INC

ŝ Kadhim Baijal-Gupta M, Fraser J, Panchal CJ, Garde S,

WPI; 2002-471401/50

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                                                                                                             The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PSP94, also known as prostatic inhibin peptide (PIP), human seminal plasma inhibin (HSPI) and betaimizenseminoprotein (bets-MSP). The analogues are useful for inhibiting growth of tumours, prostatic adenocarcinoma, stomach or gastrointestinal cancer, breast cancer, endometrial, ovarian or other cancers of epithelial secretion, or benign prostate hyperplasia and for treating patients with a disease characterized by elevated levels of FSH. The present sequence is an analogue of the invention
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New human prostate secretory protein of 94 amino acids, useful for inhibiting growth of e.g. tumor, prostatic adenocarcinoma, stomach, gastrointestinal, breast, endometrial, and ovarian cancers.
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Pred, No. 2.2e-10;
Mismatches 0; Indels
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20-AUG-2001; 2001CA-02355334.
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                                                                                                                                                                                                                                                                                                                                                                                   Cancer; human; PSP94; prostatic inhibin protein; PIP; HSPI; beta-MSP; beta-microseminoprotein; human seminal plasma inhibin; analogue; prostete secretory protein of 94 amino acids; prostatic adenocarcinoma; stomach cancer; breast cancer; endometrial cancer; ovarian cancer; benign prostate hyperplasia; cytostatic.
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patients with a disease characterized by elevated levels of FSH. present sequence is an analogue of the invention
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ilarity 100.0%; Pred. No. 2.3e-10;
Conservative 0; Mismatches 0;
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2.2e-10;
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Pred. No.
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20-AUG-2001; 2001CA-02355334.
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AA017971 standard; peptide; 21 AA AA017971 RESULT 14 AA017971 

(first entry) 30-AUG-2002 Human prostate secretory protein of 94 amino acids PSP94 analogue #60.

Cancer; human; PSP94; prostatic inhibin protein; PIP; HSPI; beta-MSP; beta-microseminoprotein; human seminal plasma inhibin; analogue; prostate secretory protein of 94 amino acids; prostatic adenocarcinoma; stomach cancer; breast cancer; endometrial cancer; ovarian cancer; benign prostate hyperplasia; cytostatic.

WO200233090-A2

25-APR-2002

16-OCT-2000; 2000CA-02321256. 20-AUG-2001; 2001CA-02355334.

(PROC-) PROCYON BIOPHARMA INC.

Kadhim S; Fraser J, Baijal-Gupta M, Panchal CJ, WPI; 2002-471401/50. Garde S,

New human prostate secretory protein of 94 amino acids, useful for inhibiting growth of e.g. tumor, prostatic adenocarcinoma, stomach, gastrointestinal, breast, endometrial, and ovarian cancers.

Claim 2; Page 95; 185pp; English.

The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PSP94, also known as prostatic inhibits peptide (PIP), human seminal plasma inhibin (HSPI) and betaminoprotein (bets-MSP). The analogues are useful for inhibiting growth of tumours, prostatic adenocarchnoma, stomach or gastrointestinal cancer, breast cancer, andometrial, ovarian or other cancers of epithelial secretion, or benign prostate hyperplasia and for treating patients with a disease characterized by elevated levels of FSH. The present sequence is an analogue of the invention

Sequence 21 AA;

.. 100.0%; Score 15; DB 5; Length 21; 100.0%; Pred. No. 2.3e-10; ive 0; Mismatches 0; Indels Query Match 100. Best Local Similarity 100. Matches 15; Conservative

1 EWQTDNCETCTCYET 15

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RESULT 15 AAO17923

AA017923 standard; peptide; 22 AA.

AAO17923;

(first entry) 30-AUG-2002

Human prostate secretory protein of 94 amino acids PSP94 analogue #12

Cancer, human, PSP94; prostatic inhibin protein; PIP; HSP1; beta-MSP; beta-microseminoprotein; human seminal plasma inhibin; analogue;

prostate secretory protein of 94 amino acids, prostatic adenocarcinoma, stomach cancer, breast cancer, endometrial cancer, ovarian cancer, benign prostate hyperplasia, cytostatic.

Homo sapiens

WO200233090-A2

25-APR-2002

15-OCT-2001; 2001WO-CA001463.

16-OCT-2000; 2000CA-02321256. 20-AUG-2001; 2001CA-02355334.

(PROC-) PROCYON BIOPHARMA INC

Garde S, Panchal CJ, Baijal-Gupta M,

Fraser J, Kadhim S;

WPI; 2002-471401/50.

New human prostate secretory protein of 94 amino acids, useful for inhibiting growth of e.g. tumor, prostatic adenocarcinoma, stomach, gastrointestinal, breast, endometrial, and ovarian cancers.

Claim 2; Page 78; 185pp; English

The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PSP94, also known as prostatic inhibin peptide (PIP), human seminal plasma inhibin (HSPI) and beta microseminoprotein (bets-MSP)). The analogues are useful for inhibiting growth of tumours, prostatic adenocarcinoma, stomach or gastrointestinal cancer, endometrial, ovarian or cther cancers of epithelial secretion, or benign prostate hyperplasia and for treating patients with a disease characterized by elevated levels of FSH. The present sequence is an analogue of the invention 

Gaps . 0 Length 22; Indels 100.0%; Score 15; DB 5; D 100.0%; Pred. No. 2.4e-10; iive 0; Mismatches 0; Local Similarity Query Match Matches

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Search completed: March 11, 2004, 18:10:32 Job time: 17.4194 secs

Sequence 22 AA;

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EWOTDNCETCTCYET 15

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GenCore version 5.1.6 (c) 1993 - 2004 Compugen Ltd

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## ALIGNMENTS

### beta-microseminoprotein; human seminal plasma inhibin; analogue; prostate secretory protein of 94 amino acids; prostatic adenocarcinoma; stomach cancer; breast cancer; endometrial cancer: \(\cappa^2 = 1\) AAO17965 standard; protein; 64 Human prostate secretory protein of 94 amino acids PSP94 analogue 30-AUG-2002 AAO17965; WO200233090-A2 Homo sapiens. benign prostate hyperplasia; cytostatic (first entry) A

The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PSP94, also known as prostatic inhibin peptide (PIP), human seminal plasma inhibin (HSP1) and betamicroseminoprotein (bets-MSP)). The analogues are useful for inhibiting growth of tumours, prostatic adenocarcinoma, stomach or gastrointestinal cancer, breast cancer, endometrial, ovarian or other cancers of epithelial secretion, or benign prostate hyperplasia and for treating patients with a disease characterized by elevated levels of FSH. The

New human prostate secretory protein of 94 inhibiting growth of e.g. tumor, prostatic gastrointestinal, breast, endometrial, and

amino acids, useful adenocarcinoma, stom

seful for stomach,

ovarian

cancers.

WPI; 2002-471401/50.

Garde

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Panchal CJ,

Baijal-Gupta M,

Fraser J,

Kadhim ŝ (PROC-) PROCYON BIOPHARMA INC.

Claim

2; Page 93-94; 185pp; English

16-OCT-2000; 20-AUG-2001;

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20-AUG-2001; 2001CA-02355334.
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                                                                                    Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PSP94; prostatic inhibin protein; PIP; HSPI; beta-MSP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        secretory protein of 94 amino acids PSP94.
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Pred. No. 5.9e-61;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  amino acids, useful for adenocarcinoma, stomach, ovarian cancers.
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                                                                                                                                Length 94
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   AA017912;
                                                            AA017912
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Use of prostate secretory protein-94 for treating hypercalcemia of malignancy and reducing skeletal metastasis arising from carcinomaprostate and breast cancers.
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ilarity 100.0%;
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; Mismatches 0;
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PSP94, also known as prostatic inhibin peptide (PIP), human seminal plasma inhibin (HSPI) and beta-microseminoprotein (bets-MSP)). The analogues are useful for inhibiting growth of tumours, prostatic adenoarcinoma, stomach or gastrointestinal cancer, breast cancer, endometrial, ovarian or other cancers of epithelial secretion, or benign prostate hyperplasia and for treating patients with a disease characterized by elevated levels of FSH. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New human prostate secretory protein of 94 inhibiting growth of e.g. tumor, prostatic gastrointestinal, breast, endometrial, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 2; Page 73-74; 185pp; English.
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20-AUG-2001; 2001CA-02355334.
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                                                     Cytostatic; prostate secretory protein-94; PSP-94; hypercalcaemia of malignancy; carcinoma; prostate
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                                                                                                                                                                                                                                                                                           ABR56228 standard; protein; 102
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                              of malignancy; carcinoma; prostate cancer; breast rmone related peptide; PTHrP; skeletal metastasis.
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6.4e-61;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention relates to the use of prostate secretory protein-94 (PSP-94; the present sequence) for treating a patient suffering from hypercalcaemia of malignancy. PSP-94 is useful for treating a patient suffering from hypercalcaemia of malignancy arising from carcinomas, prostate and breast cancer. The PSP-94 is also useful for reducing
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Duclert A,

Giordano J;

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Best Local S
Matches 64
                           19-MAY-2000;
17-JUN-2000;
14-JUL-2000;
19-SEP-2000;
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N-PSDB;
                                                                                                                                                                                                                        05-MAR-2001;
                                                                                                                                                                                                                                                                                        13-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                                     Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          severe combined immunodeficiency; SCID; autoimmune disorder; multiple sclerosis; rheumatoid arthritis; diabetes mellitus;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; secreted protein; arthritis; Crohn's disease; sepsis; shock; ischaemia-reperfusion injury; haematopoiesis; cancer; neuropathy; transgenic animal; Alzheimer's disease; Parkinson's disease; burn; amyotrophic lateral sclerosis; platelet disorder; thrombocytopenia; ulcer; osteoporosis; bone degenerative disorder; periodontal disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New nucleic acid that is a 5' expressed sequence tag (5' EST) for obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for diagnostic, forensic, gene therapy and chromosome mapping procedures.
                                                                                                                                                        07-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             gut protection; lung; liver fibrosis; immune deficiency; infection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAU28067 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 114 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               fertility; analgesic; pain; antigen.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Novel human secretory protein, Seq ID No 236.
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                                                                                                                                                                                                                                                                                                                                                                                                                  sapiens
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DB; AAC03732.
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; 2000US-00519705.
; 2000US-00574454.
; 2000US-00596193.
; 2000US-00616847.
; 2000US-00665363.
; 2000US-00693267.
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Pred. No. 7.1e
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Tang YT,
Zhao QA,
Novel polypeptides and nucleic acids obtained from cDNA libraries prepared from various human tissues, for diagnosis and treatment cancer, neurological, inflammatory, and autoimmune disorders.
                                                                                                                                                   (HYSE-) HYSEQ INC
                                                                                                      Liu C,
Yang Y,
                                                                                                      Asundi V, X:
Drmanac RT,
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                                                                                                     1 C, Wehrm.
Zhang J,
                                                                                                     Wehrman T, ke
ang J, Chen R,
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                                                                                                                        'T
                                                                                                      Wang J;
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Example 3; SEQ ID NO 236; 107pp; English

CC involved in increasing haematopolesis, stem cell survival, bone growth complylaxis or treatment of one or more cancers. (II) is also useful for creating transgeric animals useful for studying the in vivo activities of the polypeptide as well as for studying modulators of the polypeptides. (II) induces the proliferation of neural cells and regeneration of nerve and brain tissue and is useful for the treatment of central and companies, such as Alzheimer's, parkinson's disease, Huntington's disease, and amyotrophic lateral companies, regulation of haematopolesis and is useful for the treatment of central and contivity, regulation of haematopolesis and is useful for treating myeloid collymphoid cell disorders, platelet disorders such as thrombocytopenia and for regeneration of bone, cartilage, tendon, ligament and/or nerve tissue growth, and in tissue repair, healing of burns, incisions, ulcers, for treating osteoporosis, osteoarthritis, bone degenerative disorders, corportection or regeneration and treatment of lung or liver fibrosis, accompanies including severe combined immunodeficiency (SCID), bacterial or fungal infections, autoimmune disorders e.g. multiple sclerosis, creatility, metabolism, catabolism, anabolism, storage or elimination of conditions, such as asthma or other respiratory problems. (C dietary fat, lipid, protein, catabolism, anabolism, storage or elimination of commune response. ANUSBOSC-ANUSBOSC regression to raise an immune composition to raise an immune acid semences of the invention. and polynucleotides (II). (I) and (II) are us inflammatory conditions such as arthritis, no ischaemia-reperfusion injury, shock, sepsis, The invention relates to novel isolated human secreted polypeptides (I) (I) and (II) are useful for treating uch as arthritis, nephritis, Crohn's disease immune responses, and

114 AA;

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sequences of the invention

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RESULT 8
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                  28-AUG-2003
                                                      ABR54574 standard;
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                                                                                                                     61 EWII 64
                                                                                                                                                      1 EWQTDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS
                                                                                                                                                                           64;
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                                                                                                    EWII 114
                                                                                                                                                                            Conservative
                  (first entry)
                                                      protein;
                                                                                                                                                                                    100.0%;
                                                        114 AA
                                                                                                                                                                           0
                                                                                                                                                                           Score 64; DB 4;
Pred. No. 7.1e-61;
Mismatches 0;
                                                                                                                                                                                              Length 114;
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                                                                                                                                                                            Gaps
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Prostatic secretory protein SEQ ID 1003

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RESULT 9
ADB75447
ID ADB7
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Best Local
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Kalos MD, Fanger GR, Ret
Carter D, Li SX, Wang A,
Mcneill PD, Houghton RL,
                                                                                                                                                                                                                                                                                                                                                                                                                          The present invention relates to novel prostate-specific proteins (PSP) and their coding sequences. The PSPs and their coding sequences are useful for stimulating an immune response in a patient, or for treating prostate cancer in a patient and for determining, detecting or diagnosing the presence of a cancer in a patient. The present sequence was used to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New prostate-specific proteins and genes, useful in gene therapy, particularly for stimulating an immune response in a patient, or treating prostate cancer in a patient, as well as for diagnosing prostate cancer.
                                                                                                                                                                                                                                                                                                                                                                                         Sequence 114 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            in a
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29-JUN-2001; 2001US-00895814
10-DEC-2001; 2001US-00012896
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Cytostatic; gene therapy; prostate-specific protein; PSP; human; immune response; prostate cancer.
                                                           Homo sapiens
                                                                                   Prostate; cancer;
                                                                                                                                  04-DEC-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 2; Page 666; 691pp;
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                                                                                                                                                                                  ADB75447 standard;
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                                                                                                           cancer
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                                                                                                                                                                                                                                                                                                                                                                                                                 the invention
                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                (first entry)
                                                                                                                                                                                                                                                                   64
                                                                                 cytostatic; gene therapy; marker
                                                                                                                                                                               protein;
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3R, Retter MM, Stolk JA, Day CH, Vedvick TS;
Wang A, Skelky YAM, Hepler WT, Hutal J;
CON RL, Vinals Y De BassolsC, Foy TM, Watanab
                                                                                                                                                                                                                                                                                                                                                     100.0%;
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Pred. No. 7.1e-61;
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                                                                                                                                                                                                                                                                                                                                        0;
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ADB14453
ID ADB14
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Best Local S
Matches 64
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22-AUG-2001;
25-SEP-2001;
12-DEC-2001;
05-MAR-2002;
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Hoersh S,
                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 114 AA;
                                                                      Homo sapiens
                                                                                                                                                                                18-DEC-2003
                                                                                                                                                                                                                                                                                           111
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level indicates that the patient is afflicted with prostate cancer. Nucleic acids of the invention are useful for diagnosing or treating prostate cancer, and may be useful in gene therapy. Sequences given in ADB/5177-ADB/5631 represent marker cDNA and proteins. Note: The sequence data for this patent did not form part of the printed specification, bu was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                 the cancerous state of prostate cells. Also disclosed is a method of assessing whether a patient is afflicted with prostate cancer. The method of the invention involves assessing whether a patient is afflicted with prostate cancer by comparing the level of expression of a marker in a patient sample and the normal level of expression of the marker in a control non-prostate cancer sample, where a significant increase in the level of expression of the marker in the patient sample and the normal
                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to newly discovered cancer markers associated with the cancerous state of prostate cells. Also disclosed is a method of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; SEQ ID NO 271; 99pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New nucleic acid molecule, useful for diagnosing or treating prostate
ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     25-JUL-2002;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Kamatkar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; 2001US-0307982P.
; 2001US-0314356P.
; 2001US-0325020P.
; 2001US-0341746P.
; 2002US-0362158P.
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latt K, Zhao X,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gorbatcheva
Anderson D;
                                                                                                                                                                                                                                                                                                                                                                                                          The method
                                                                      sequence
tion, but
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1 EWQTDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS
EWII 64
                             EWQTDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS
                                                                                       100.0%;
llarity 100.0%;
Conservative (
                                                                                           0
                                                                                         Score 64; DB 7;
Pred. No. 7.1e-61;
; Mismatches 0;
                                                                                           Indels
                                                                                           0,
                                                                                         Gaps
                              110
                                                             60
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Length 114;

0

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Human prostatic secretory protein (PSP)
                                                                                                                                                    ADB14453 standard; protein; 114 AA.
                                                                            (first
                                                                          entry)
immunostimulant;
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Human, prostate specific cDNA; cytostatic; immuno cell therapy; vaccine; T-cell epitope; class I major histocompatibility complex allele; tumour; antigen presenting cell.
US2003185830-A1
                                                                                                                                   MHC; prostate
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12-NOV-2002; 2002US-00294025

06-FEB-2003

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-00806099

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CC encoding the proteins and peptides, expression vectors, a host cell cransformed with the vector an isolated antibody (or antigen binding CC transformed with the vector an isolated antibody (or antigen binding CC transformed with the vector an isolated antibody (or antigen binding CC transformed with a specifically binds to the protein or peptide, detecting CC the presence of a cancer in a patient (comprising contacting a patient CC sample with a binding agent that binds to the peptides or a polypeptide to the specific for a tumour protein of polypeptide to a predetermined cut-comprising the peptides or proteins, stimulating or expanding T cells with the comprising the peptides or proteins, stimulating or expanding T cells with the peptides or the isolated T cell population, treating prostate cancer in a cancer in a patient comprising administering a composition comprising the presence of nucleic acids, antibodies or compounds, determining the presence of a cancer in a patient with the peptides or antigen presenting cells that express (the peptides so that the T cells proliferate cancer in a patient comprising the peptides (that hybridises to nucleic acid encoding them), is used to detect the presence of cancer of cancer in a patient. The peptides (or an oilgonucleotide that hybridises to mucleic acid encoding them), is used to detect the conversion of cells specific for a tumour protein. The peptides, antibodies, fusion proteins, T cell populations or antigen ranged to presenting cells expressing the nucleic acid, are used to
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14-JAN-2000;
27-MAR-2000;
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01-AUG-1997;
09-FEB-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to an isolated polypeptide comprising no more than 11-542 amino acids of ADB13563 comprising a sequence ADB1487. The peptides comprise a fragment ADB13563 of that contain naturally processed T-cell epitopes for 3 class I major histocompatibility complex (MHC) allelas. ADB13563 is a polypeptide encoded by a human prostate specific cDNA, one of 648 disclosed as new. Also included are nucleic acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New isolated polypeptide for use in a vaccine for stimulating an in response, or for treating or diagnosis cancer, preferably prostate
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23-SEP-1998;
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RESULT 11
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    prostate cancer in a patient. The present sequence is a prostate specifi protein of the invention. Note: Except where otherwise indicated, the sequence data for this patent did form part of the printed specification, but was obtained in electronic format directly from USPTO at segdata.uspto.gov/sequence.html?DocID=20030185830.
                                         cardioactive, immunomodulatory, muscular, vulnerary, gastrointestinal, nephrotropic, antiinfective, gynaecological and antibacterial activities, and can be used in gene therapy. The prostate cancer antigen polynucleotides may be used for detection of prostate cancer, chromosome identification, as chromosome markers, and for numerous other diagnostic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       vulnerary; gastrointestinal;
antibacterial; gene therapy;
gastrointestinal; pulmonary;
                                                                                                                  AAF15566 to AAF16505 encode the human prostate cancer associated proteins, called prostate cancer antigens, given in AAB56363 to AFT The prostate cancer antigens can have neuroprotective, cytostatic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 114 AA;
           or research purposes. The prostate cancer antigens may be used to treat disorders such as neural, immune, muscular, reproductive,
                                                                                                                                                                              Claim 11;
                                                                                                                                                                                                                         antigens,
                                                                                                                                                                                                                          Prostate cancer associated gene sequences, referred to as prostate cancer antigens, useful for treatment, prevention, and diagnosis of disorders
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neuroprotective; cytostatic;
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infectious disease.
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ROSEN C A.
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 immune, muscular,
ry, cardiovascular,
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Pred. No. 7.1e-61;
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   reproductive, renal, and p
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RESULT 12
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Best Local
                                                                                                          The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PSP94, also known as prostatic inhibin peptide (PIP), human seminal plasma inhibin (HSP1) and betamicroseminoprotein (bets-MSP)). The analogues are useful for inhibiting growth of tumours, prostatic adenocarcinoma, stomach or gastrointestinal cancer, breast cancer, endometrial, ovarian or other cancers of entirely and the prostation of the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancers of entirely and the cancer
                                       epithelial secretion, or benign prostate hyperplasia and for tre
patients with a disease characterized by elevated levels of FSH.
present sequence is an analogue of the invention
                                                                                                                                                                                                                                                                                                                          New human prostate secretory protein of 94 amino acids, useful inhibiting growth of e.g. tumor, prostatic adenocarcinoma, stogastrointestinal, breast, endometrial, and ovarian cancers.
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Sequence
                                                                                                                                                                                                                                                                                  Claim 2;
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20-AUG-2001; 2001CA-02355334.
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Query Match Best Local S Matches 63

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Score 63; DB; Pred. No. 4.9
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                                                                                                                                                             The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PSP94, also known as prostatic inhibin peptide (PIP), human seminal plasma inhibin (HSPI) and betamicroseminoprotein (bets-MSP)). The analogues are useful for inhibiting growth of tumours, prostatic adenocarcinoma, stomach or gastrointestinal cancer, breast cancer, endometrial, ovarian or other cancers of epithelial secretion, or benign prostate hyperplasia and for treating patients with a disease characterized by elevated levels of FSH. The present sequence is an analogue of the invention
                                                                                                                                                                                                                                                                                                                         New human prostate secretory protein of inhibiting growth of e.g. tumor, prostat gastrointestinal, breast, endometrial, a
                                                                                                                                        Sequence
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20-AUG-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     beta-microseminoprotein; human seminal plasma inhibin; analogue; prostate secretory protein of 94 amino acids; prostatic adenocarcinoma; stomach cancer; breast cancer; endometrial cancer; ovarian cancer;
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Matches 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            peptides or analogues of prostatic inhibin peptide (PIP) are used in a pharmaceutical preparation for treating patients with benign prostatic hyperplasia or adenocarcinoma for particularly adenocarcinoma of the prostate or gastrointestinal tract or breast cancer. The preparation can also be used to treat patients with diseases characterised by elevated levels of follicle stimulating hormone (FSH). The PIP and its analogues inhibit tumour growth and desrease FSH levels without adversely affecting testosterone levels. (Updated on 25-WAR-2003 to correct PN-field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Prostatic inhibin peptide; cancer; adenocarcinoma; breast cancer; hyperplasia; PIP; follicle stimulating hormone; FSH; tumour; inhibition; prostate cancer; gastrointestinal tract.
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                                                  Human prostate
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PSP94; prostatic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   beta-microseminoprotein; human seminal plasma inhibin; analogue; prostate secretory protein of 94 amino acids; prostatic adenocarcinoma; stomach cancer; breast cancer; endometrial cancer; ovarian cancer; benign prostate hyperplasia; cytostatic.
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Aao17915	Aaoi/914	Aao1/966	Aao17967	Aar53471	Aao1/968	Aao17969	Aao17970	Aao17971	Aao17972	Aao17973	Aaol/9/4	Aaol/9/5	Aao1/9/6	Aaol/9//	Aao1/9/8	Hau 2010	Aao1/9/9	Aa01/980	Aao17981
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# ALIGNMENTS

RESULT 1 AAO17995 ID AAO1 Cancer; human; PSP94; prostatic innum. Provential, analogue; beta-microseminoprotein; human seminal plasma inhibin; analogue; beta-microseminoprotein of 94 amino acids; prostatic adenocar prostate secretory protein of 94 amino acids; ovarian cancer. stomach cancer; breast cancer; endometrial benign prostate hyperplasia; cytostatic. Human prostate 30-AUG-2002 AAO17995 standard; protein; 45 WO200233090-A2 Homo sapiens. AAO17995; (first entry) PSP94; prostatic inhibin protein; PIP; HSPI; beta-MSP; secretory protein of 94 amino acids PSP94 analogue #84 A adenocarcinoma;

25-APR-2002

15-OCT-2001; 2001WO-CA001463

16-OCT-2000; 2000CA-02321256. 20-AUG-2001; 2001CA-02355334.

(PROC-) PROCYON BIOPHARMA INC.

Garde S, Panchal CJ, Baijal-Gupta ĭ, Fraser 4 Kadhim

WPI; 2002-471401/50.

New human prostate secretory protein of 94 amino acids, useful inhibiting growth of e.g. tumor, prostatic adenocarcinoma, stongastrointestinal, breast, endometrial, and ovarian cancers. seful for stomach,

Claim 2; Page 104; 185pp; English.

The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PSP94, also known as prostatic inhibin peptide (PIP), human seminal plasma inhibin (HSP1) and betaminoprotein (bets-MSP)). The analogues are useful for inhibiting growth of tumours, prostatic adenocarcinoma, stomach or gastrointestinal growth of tenocer, endometrial overian or other cancers of epithelial secretion, or benign prostate hyperplasia and for treating patients with a disease characterized by elevated levels of FSH. The present sequence is an analogue of the invention

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RESULT 2
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Matches 45
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Matches 45
                                                                                                                                                                                                                                                                                                                                                                                                          Peptides or analogues of prostatic inhibin peptide (PIP) are used in a pharmaceutical preparation for treating patients with benign prostatic hyperplasia or adenocarcinoma, particularly adenocarcinoma of the prostate or gastrointestinal tract or breast cancer. The preparation can also be used to treat patients with diseases characterised by elevated levels of follicle stimulating hormone (FSH). The PIP and its analogues inhibit tumour growth and desrease FSH levels without adversely affecting testosterone levels. (Updated on 25-MAR-2003 to correct pN field.)
                        AAO17911 standard;
                                                                                                                                                                                                                                                                                                                                                           Sequence 94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure; Fig 1; 48pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Prepn. contg. prostatic inhibin peptide or analogues - used for treating benign prostatic hyperplasia, adenocarcinoma or diseases with high FSH
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30-JUN-1994
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 WO2003039576-A1
                              Homo sapiens
                                                         Human; cytostatic; prostate secretory protein-94; PSP-94; hypercalcaemia of malignancy; carcinoma; prostate cancer; breast cancer; parathyroid hormone related peptide; PTHrP; skeletal metastasis.
                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PSP94, also known as prostatic inhibin peptide (PTP), human seminal plasma inhibin (HSPI) and betamicroseminoprotein (bets-MSP)). The analogues are useful for inhibiting growth of tumours, prostatic adenocarcinoma, stomach or gastrointestinal cancer, breast cancer, endometrial, ovarian or other cancers of epithelial secretion, or benign prostate hyperplasia and for treating patients with a disease characterized by elevated levels of FSH. The present sequence is the human PSP94 protein
                                                                                                                     Native Human prostate secretory protein-94 (PSP-94).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New human prostate secretory protein of 94 inhibiting growth of e.g. tumor, prostatic gastrointestinal, breast, endometrial, and
                                                                                                                                                     20-NOV-2003
                                                                                                                                                                                   ABR56227;
                                                                                                                                                                                                               ABR56227 standard; protein;
                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 94
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20-AUG-2001; 2001CA-02355334.
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                                                                                                                                                                                                                                                                                                                                                    45;
                                                                                                                                                                                                                                                                                                                    1 SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET
                                                                                                                                                                                                                                                                                                                                                                    Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PROCYON BIOPHARMA INC
                                                                                                                                                                                                                                                                                          SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Panchal CJ,
                                                                                                                                                                                                                                                                                                                                                                                                                 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Page 73; 185pp; English
                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PSP94; prostatic inhibin protein; PIP; HSPI; beta-MSP;
                                                                                                                                                                                                                                                                                                                                                                  100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Baijal-Gupta
                                                                                                                                                                                                                                                                                                                                                                              .0%;
                                                                                                                                                                                                                94
                                                                                                                                                                                                                                                                                                                                                  0
                                                                                                                                                                                                                                                                                                                                                                  Score 45; DB
Pred. No. 4.76
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                                                                                                                                                                                                                                                                                                                                                    Mismatches
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                                                                                                                                                                                                                                                                                                                                                                  4.7e-39;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Fraser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          amino acids, useful adenocarcinoma, stom ovarian cancers.
                                                                                                                                                                                                                                                                                                                                                                                  <u>რ</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     'n
                                                                                                                                                                                                                                                                                                                                                                              Length 94;
                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Kadhim
                                                                                                                                                                                                                                                                                                                     45
                                                                                                                                                                                                                                                                                          45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           stomach,
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RESULT 5
AAO17912
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Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Use of prostate secretory protein-94 for tre
malignancy and reducing skeletal metastasis
prostate and breast cancers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  08-NOV-2001; 2001CA-02361736
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           08-NOV-2002; 2002WO-CA001737
                                                                                                                                                                                                                             beta-microseminoprotein; human seminal plasma inhibin; analogue; prostate secretory protein of 94 amino acids; prostatic adenocarcinoma; stomach cancer; breast cancer; endometrial cancer; ovarian cancer;
                                                                                                                                                                                                                                                                                                                      30-AUG-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                            Human prostate secretory protein of 94 amino acids
                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                        Cancer;
                                                                                                                                                                                                                                                                                                                                                                      AAO17912 standard;
                                    Garde
                                                                                   16-OCT-2000;
20-AUG-2001;
                                                                                                                                               25-APR-2002
                                                                                                                                                                      WO200233090-A2
                                                                                                                                                                                                                     benign
                                                                                                                        15-OCT-2001;
                                                            (PROC-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local
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l Similarity 100.0%;
45; Conservative 0
                                                                                                                                                                                                                    prostate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SA,
                                                                                                                                                                                                                                                                      human; PSP94;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  94
                                                          PROCYON BIOPHARMA INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                  SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET
                                                                                                                                                                                                                                                                                                                                                                                                                                  SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET
                                    Panchal CJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Page 35; 61pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Shukeir N,
                                                                                                                        2001WO-CA001463.
                                                                                  2000CA-02321256.
2001CA-02355334.
                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                       hyperplasia; cytostatic
                                                                                                                                                                                                                                                                                                                                                                     protein;
                                                                                                                                                                                                                                                                       prostatic inhibin protein;
                                    Baijal-Gupta M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Panchal
                                                                                                                                                                                                                                                                                                                                                                        102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 45; DB Pred. No. 4.7); Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4.7e-39;
                                     Fraser J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       treating hypercalcemia of sis arising from carcinoma:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 94;
                                                                                                                                                                                                                                                                        PIP; HSPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                 PSP94 analogue
                                       Kadhim
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              4.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           carcinomas,
                                       S
                                                                                                                                                                                                                                                                          beta-MSP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0
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FERRESCO
В
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                                                                  Best Loca
Matches
                                                                                                   Query Match
                                                                                                                                             growth of tumours, prostatic adenocarcinoma, stomach or gastrointestinal cancer, breast cancer, endometrial, ovarian, or other cancers of epithelial secretion, or benign prostate hyperplasia and for treating partients with a disease characterized by elevated levels of FSH. The present sequence is an analogue of the invention
                                                                                                                                                                                                                                                                                                                                                                           New human prostate secretory protein of 94 amino acids, useful for inhibiting growth of e.g. tumor, prostatic adenocarcinoma, stomach gastrointestinal, breast, endometrial, and ovarian cancers.
                                                                                                                                     Sequence 102 AA;
                                                                                                                                                                                                                                                           The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PSP94, also known as prostatic inhibin peptide (PIP), human seminal plasma inhibin (HSPI) and betamicroseminoprotein (bets-MSP). The analogues are useful for inhibit
                                                                                                                                                                                                                                                                                                                                            Claim
                                                                                      Local
 9
                                Н
                                                                  1 Similarity
45; Conserv
                              SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET
                                                                                                                                                                                                                                                                                                                                          Page 73-74; 185pp; English.
 SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET
                                                                  100.0%;
ilarity 100.0%;
Conservative
                                                                    0
                                                                    Score 45; DE
Pred. No. 5e-
0; Mismatches
                                                                                 ; DB 5;
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                                                                                                     Length 102;
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                                                                      Gaps
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RESULT 6
ABR56228
parathyroid hormone related peptide; PTHrP; skeletal metas
                                                                                                                                                                                                                  Recombinate prostate
                                                                                                                                                                                                                                         ABR56228;
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                                                                                                                                                                                                                             20-NOV-2003
                                                                                                                                             08-NOV-2002; 2002WO-CA001737
                                                                                                                                                         15-MAY-2003
                                                                                                                                                                    WO2003039576-A1
                                                                                                                                                                               Unidentified
                                                                                                                                                                                                Cytostatic; prostate secretor hypercalcaemia of malignancy;
                                                                                                                                                                                                                                                    standard;
                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                    protein; 102
                                                                                                                                                                                                                  secretory protein-94
                                                                                                                                                                                                      secretory protein-94; PSP-94;
                                                                                                                                                                                                                                                     A
                                                                                                                                                                                                                   (PSP-94)
                                                                                                                                                                                            ncer; breast
metastasis.
                                                                                                                                                                                                   cancer;
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The present invention relates to the use of prostate secretory protein-94 (PSP-94; the present sequence) for treating a patient suffering from hypercalcaemia of malignancy. PSP-94 is useful for treating a patient suffering from hypercalcaemia of malignancy arising from carcinomas, prostate and breast cancer. The PSP-94 is also useful for reducing parathyroid hormone related peptide (PTHrP) levels in a patient in need and reducing the development of skeletal metastasis. The PSP-94 is also used for the manufacture of a pharmaceutical composition for the treatment of hypercalcaemia of malignancy and/or skeletal metastasis

Use of prostate secretory protein-94 for treating hypercalcemia malignancy and reducing skeletal metastasis arising from carcino

carcinomas,

OF.

Disclosure; Page 35-36; 61pp; English.

prostate and

breast

WPI; 2003-441476/41

Rabbani (PROC-)

SA,

Shukeir N,

Panchal

Ć,

Newman

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08-NOV-2001; 2001CA-02361736.

PROCYON BIOPHARMA INC.

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Sequence 102 AA

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Best Local S
Matches 45
                                                             Matches
                                                                         Query Match
Best Local
                                                                                                                                        The present sequence is a polypeptide encoded by one of a large number of 5' ESTs derived from mRNAs encoding secreted proteins. The 5' ESTs were prepared from total human RNAs or poly4+ RNAs derived from 30 different tissues. EST sequences usually correspond mainly to the 3' untranslated region (UTR) of the mRNA because they are often obtained from oligo-dT primed cDNA libraries. Such ESTs are not well suited for isolating cDNA sequences derived from the 5' ends of mRNAs and even in those cases where longer cDNA sequences have been obtained, the full 5' UTR is rarely included. 5' ESTs are derived from mRNAs with intact 5' ends and can therefore be used to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used in diagnostic, forensic, gene therapy and chromosome mapping procedures. They are used to obtain upstream regulatory sequences and to design expression and secretion vectors
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI;
                                                                                                                                                                                                                                                                                                                                                                                 New nucleic acid that is a 5' expressed sequence tag (5' EST) for obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for diagnostic, forensic, gene therapy and chromosome mapping procedures.
                                                                                                                    Sequence 114 AA;
                                                                                                                                                                                                                                                                                                                                                       Claim 13; SEQ ID NO 7807; 71pp + Sequence Listing; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                  N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Dumas Milne Edwards
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     26-FEB-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21-FEB-2000; 2000EP-00200610.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 06-SEP-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EP1033401-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human secreted protein, SEQ ID NO: 7807.
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DB; AAC03732.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   therapy;
   21
                                                             45;
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                                                                         Similarity
                    SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 45
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 53
                                                        100.0%;
ilarity 100.0%;
Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      100.0%; Score 45; illarity 100.0%; Pred. No. Conservative 0; Mismatch
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 expressed sequence tag; secreted protein; cDNA isolation; chromosome mapping.
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                                                           0
                                                        Score 45; DB
Pred. No. 5.5
0; Mismatches
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red. No. 5e-39;
Mismatches 0
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                                                                        5.5e-39;
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                                                                                    Length 114;
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RESULT

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CC ischaemia-reprinsion injury, shock, sepsis, immune responses, and is involved in increasing haematopoiesis, stem cell survival, bone growth cc and remodeling. (I), (II) and modulators of (II) are useful for cc and remodeling. (II) and modulators of (II) are useful for cc prophylaxis or treatment of one or more cancers. (II) is also useful for creating transgenic animals useful for studying the in vivo activities of the polypeptide as well as for studying modulators of the polypeptides. (CI) induces the proliferation of neural cells and regeneration of nerve creating or the prolypeptides. (CI) induces the proliferation of neural cells and regeneration of nerve creating or the prolypeptides. (CI) induces the proliferation of neuropathies, such as Alzheimer's, cardinates, huntington's disease, and amyotrophic lateral creating of sisease, Huntington's disease, and amyotrophic lateral creating coll disease, platelet disorders such as thromboytopenia cardivity, regulation of haematopoiesis and is useful for treating myeloid cor lymphoid cell disorders, platelet disorders such as thromboytopenia creatise growth, and in tissue repair, healing of burns, incisions, ulcers, cor periodontal disease. Furthermore, (I) is also useful for gut creating osteoporosis, osteoarthritis, bone degenerative disorders, cor periodontal disease. Furthermore, (I) is also useful for gut creating osteoporosis, osteoarthritis, bone degenerative disorders, cor periodontal disease. Furthermore, (I) is also useful for gut consisted in a continual continual continual continual deficiencies and continual continual continual continual continual continual continual continual continual continual continual continual continual continual continual continual continual continual continual continual continual continual continual continual continual continual continual continual continual continual continual continual continual continual continual continual continual continual continual continual continual continual continual continual continual continua
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Novel polypeptides and nucleic acids obtained from cDNA libraries prepared from various human tissues, for diagnosis and treatment cancer, neurological, inflammatory, and autoimmune disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            07-MAR-2000; 2000US-00519705.
19-MAY-2000; 2000US-00574454.
17-UUN-2000; 2000US-00596193.
14-UUL-2000; 2000US-00616847.
19-SEP-2000; 2000US-00665363.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 3; SEQ ID NO 236; 107pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    and polynucleotides (II). (I) and (II) are useful for treating inflammatory conditions such as arthritis, nephritis, Crohn's disease,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Zhao
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           05-MAR-2001; 2001WO-US004942
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           13-SEP-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              fertility; analgesic; pain; antigen.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Novel human secretory protein, Seq
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (HYSE-) HYSEQ INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             invention relates to novel isolated human secreted polypeptides polynucleotides (II). (I) and (II) are useful for treating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2001-589934/66.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           secreted protein; arthritis; Crohn's disease; sepsis; shock;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Yang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Liu C,
Yang Y,
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Zhang
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ng J, Chen
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Wang
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ng J;
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dietary fat, lipid, protein, carbohydrate, vitamins, minerals, provides analgesic effects or other pain reducing effects, immunoglobulin like activity and can act as an antigen in a vaccine composition to raise an immune response. AAU28020-AAU28395 represent novel human secreted protein

a response. AAU: acid sequences

of the invention

In addition, (I) affects biorhythms or circadian cycles of rhythms, fertility, metabolism, catabolism, anabolism, storage or elimination

such as asthma or other respiratory problems.

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RESULT 9
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Best Local
Query Match
Best Local Similarity
                                                                                                                                                                                                                                            Carter D, l
                                                     The present invention relates to novel prostate-specific proteins (PSP) and their coding sequences. The PSPs and their coding sequences are useful for stimulating an immune response in a patient, or for treating prostate cancer in a patient and for determining, detecting or diagnosing the presence of a cancer in a patient. The present sequence was used to illustrate the invention
                                                                                                                                                               New prostate-specific proteins and genes, useful in gene therapy, particularly for stimulating an immune response in a patient, or treating prostate cancer in a patient, as well as for diagnosing prostate cancer
                                                                                                                                                                                                                                                                                                                          09-MAY-2001; 2001US-00852911
29-JUN-2001; 2001US-00895814
10-DEC-2001; 2001US-00012896
                                                                                                                                                                                                                                                                                                                                                                      09-MAY-2002;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Cytostatic; gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Prostatic secretory protein SEQ ID 1003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   28-AUG-2003
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                                                                                                                                                                                                                                                                    Kalos MD,
                                 Sequence 114
                                                                                                                                  Claim 2; Page 666; 691pp; English
                                                                                                                                                                                                             WPI; 2003-167130/16.
                                                                                                                                                                                                                                                                              Xu J,
                                                                                                                                                       Ø
                                                                                                                                                      patient.
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                                                                                                                                                                                                                                                                              Dillon DC,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             standard;
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                                                                                                                                                                                                                                                        Fanger
Li SX,
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                                  Ŗ,
                                                                                                                                                                                                                                            Houghton
                                                                                                                                                                                                                                                                                                                                                                      2002WO-US014753
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                           therapy; prostate-specific protein; PSP; human; prostate cancer.
                                                                                                                                                                                                                                             Mitcham JL, Harlocker SL, Jiang Y, Henderson
GR, Retter MM, Stolk JA, Day CH, Vedvick TS;
Wang A, Skeiky YAW, Hepler WT, Hural J;
hton RL, Vinals Y De BassolsC, Foy TM, Watanabe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          100.0%;
100.0%;
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NO;
 DB 6;
5.5e-39;
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           Length 114;
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RESULT 10
ADB75447
ID ADB75
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                      prostate cancer by comparing the level of expression of a marker in a patient sample and the normal level of expression of the marker in a control non-prostate cancer sample, where a significant increase in the level of expression of the marker in the patient sample and the normal level indicates that the patient is afflicted with prostate cancer. Nucleic acids of the invention are useful for diagnosing or treating prostate cancer, and may be useful in gene therapy. Sequences given in ADB7517-ADB75631 represent marker cDNA and proteins. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                           Schlegel
Hoersh S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            04-DEC-2003
                                                                                                                                                                                the cancerous state of prostate cells. Also disclosed is a method of assessing whether a patient is afflicted with prostate cancer. The method of the invention involves assessing whether a patient is afflicted with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         25-JUL-2001;
22-AUG-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                06-FEB-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADB75447;
Sequence 114
                                                                                                                                                                                                                                                          Disclosure; SEQ ID NO 271; 99pp; English
                                                                                                                                                                                                                                                                                                  New nucleic acid molecule, useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                  05-MAR-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                             25-SEP-2001;
12-DEC-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo
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                                                                                                                                                                                                                               The invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    25-JUL-2002;
                                                                                                                                                                                                                                                                                                                                                                                                       (MILL-) MILLENNIUM PHARM INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cancer marker protein.
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                                                                                                                                                                                                                                                                                                                                                             Kamatkar S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                               2001US-0307982P.
2001US-0314356P.
2001US-0325020P.
2001US-0341746P.
2002US-0362158P.
 ΑA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2002WO-US023913
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry
                                                                                                                                                                                                                               relates to newly discovered cancer markers associated with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cytostatic; gene therapy; marker.
                                                                                                                                                                                                                                                                                                                                                                         Œ,
                                                                                                                                                                                                                                                                                                                                                           , Endege WO, Gannavarapu M, Wonsey AM, Glatt K, Zhao X,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
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                                                                                                                                                                                                                                                                                                   diagnosing or
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                                                                                                                                                                                                                                                                                                     treating prostate
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Anderson D;
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22

1 SCYFIPNEGVPGDSTRKCMDLKGNXHPINSEWQTDNCETCTCYET

SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET

65 45 Matches

45;

Conservative

0,

Mismatches

Similarity

100.0%;

Score 45; DB 7; Pred. No. 5.5e-39;

Length 114;

Indels

0,

Gaps

0;

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The invention relates to an isolated polypeptide comprising no more than 11-542 amino acids of ADB13563 comprising a sequence ADB14487. The peptides comprise a fragment ADB13563 of that contain naturally processed T-cell epitopes for 3 class I major histocompatibility complex (MHC) alleles. ADB13563 is a polypeptide encoded by a human prostate specific CDNA, one of 648 disclosed as new. Also included are nucleic acids encoding the proteins and peptides, expression vectors, a host cell transformed with the vector, an isolated antibody (or antigen binding fragment) that specifically binds to the protein or peptide, detecting
                                                                                                                                                                                                WPI;
                                                                                                                                                                                                                        Xu σ,
                                                                                                                         Example 34; Page; 101pp; English.
                                                                                                                                                            New isolated response, or
                                                                                                                                                                                                                                                                                                                       09-FEB-2001;
                                                                                                                                                                                                                                                                                                                                              09-NOV-2000;
                                                                                                                                                                                                                                                                                                                                                                                06-SEP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; prostate specific cDNA; cytostatic; immunostimulant; gene theracell therapy; vaccine; T-cell epitope; class I major histocompatibility complex allele; MHC; prostate cancer;
                                                                                                                                                                                                                                                (CORI-)
                                                                                                                                                                                                                                                                                                             -YAM-60
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     tumour; antigen presenting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human prostatic secretory protein (PSP)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               25-FEB-1997
                                                                                                                                                                                                2003-756193/71
                                                                                                                                                                                                                                                CORIXA CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                         99US-00443686.
2000US-00483672.
2000US-00536857.
2000US-00568100.
2000US-00570737.
                                                                                                                                                            polypeptide for use in a vaccine for stimulating an immune for treating or diagnosis cancer, preferably prostate
                                                                                                                                                                                                                        JA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2002US-00294025
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                      2001US-00780669.
                                                                                                                                                                                                                                                                                                                                             2000US-00685166.
2000US-00709729.
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2000US-00657279.
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2000US-00605783.
                                                                                                                                                                                                                                                                                   2001US-00012896
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9908-00439313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9908-00352616.
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                                                                                                                                                                                                                        Kalos
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                                                                                                                                                                                                                                                                                                                                  -00759143.
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Query Match
Best Local
                                                                                                                                                                    from a patient with the peptides or antigen presenting cells that express (the peptides so that the T cells proliferate, and administering the proliferated T cells to the patient. The peptides (or an oligonucleotide that hybridises to nucleic acid encoding them), is used to detect the presence of cancer in a patient. The peptides, nucleic acid, see used to stimulate or expand T cells expressing the nucleic acid, are used to stimulate or expand T cells specific for a tumour protein. The peptides, nucleic acid, are used to stimulate an immune response or treat presenting cells are used to stimulate an immune response or treat prostate cancer in a patient. The present sequence is a prostate specific sequence data for this patent did not form part of the printed specific sequence data for this patent did not form part of the printed specific specification, but was obtained in electronic format directly from USPTO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   the presence of a cancer in a patient (comprising contacting a patient sample with a binding agent that binds to the peptides or a polypeptide appearing as ADB1358, detecting the amount of polypeptide that binds to the agent and comparing the amount of polypeptide to a predetermined cutoff value to determine the presence of cancer), a fusion protein comprising the peptides or proteins, stimulating or expanding T cells specific for a tumour protein comprising contacting T cells with the peptides or the isolated T cell population, treating prostate cancer in a patient comprising administering a composition comprising the peptides, and the peptides of the peptides or the solated T cell population.
                                                                                        Sequence 114 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   nucleic acids, antibodies or compounds, determining the presence of a cancer in a patient and treating prostate cancer in a patient comprising incubating cluster of differentiation (CD4+) and/or CD8+ T cells isolated
                                                                                                                                           seqdata.uspto.gov/sequence.html?DocID=20030185830
   Similarity
100.0%;
                            .0%;
Score 45;
Pred. No.
   5.5e-39;
                               BG
                                  7;
                            Length 114;
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                                   Matches
21
          1 SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET
                                    45;
SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET
                                    Conservative
                                    0;
                                    Mismatches
                                    0
                                    Indels
                 45
65
                                    0
                                   Gaps
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RESULT 12
AAB56449
ID AAB56
XX AAB56
AC AAB56
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XX vulnerary; gastrointestinal; antibacterial; gene therapy; Human; Human prostate cancer antigen protein sequence SEQ ID NO:1027. 13-MAR-2001 AAB56449; AAB56449 standard; protein; 132 AA neuroprotective; prostate cancer; prostate cancer antigen; (first entry) cytostatic;

Rosen CA, (HUMA-) 08-MAR-2000; 2000WO-US005988 21-SEP-2000 WO200055174-A1 gastrointestinal; wound; infectious 2-MAR-1999; sapiens. ROSEN Ruben SM GENOME SCI C A. 99US-0124270P pulmonary; cardiovascular; disease. cardioactive; immunomodulatory; muscular; nephrotropic; antiinfective; gynaecological; neural; immune; reproductive; renal; detection; diagnosis;

WPI; 2000-587513/55 N-PSDB; AAF15652.

Prostate cancer associated gene antigens, useful for treatment, such as prostate cancer.

sequences, referred to as prevention, and diagnosis

prostate can of disorders

cancer

proteins, called prostate cancer antigens, given in AAB56363 to AAB57302. The prostate cancer antigens can have neuroprotective, cytostatic, cardioactive, immunomodulatory, muscular, vulnerary, gastrointestinal, nephrotropic, antiinfective, gynaecological and antibacterial activities, and can be used in gene therapy. The prostate cancer antigen polynucleotides may be used for detection of prostate cancer, chromosome identification, as chromosome markers, and for numerous other diagnostic or research purposes. The prostate cancer antigens may be used to treat disorders such as neural, immune, muscular, reproductive, gastrointestinal, pulmonary, cardiovascular, reproductive, gastrointestinal, pulmonary, cardiovascular, renal, and proliferative disorders, wounds, and infectious diseases. AAF1656 to AAF16514 to AAB57303 represent sequences used in the exemplification of the present

AAF15566 to AAF16505 encode the human prostate cancer associated

2338pp;

English.

Sequence 132 AA;

Length 132

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RESULT 13
AAO17994
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Best Local .
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                                               New human prostate secretory protein of 94 inhibiting growth of e.g. tumor, prostatic gastrointestinal, breast, endometrial, and
                                                                                                                                                                                                                                                                    Cancer; human; PSP94; prostatic runturn provide analogue; beta-microseminoprotein; human seminal plasma inhibin; analogue; prostate secretory protein of 94 amino acids; prostatic adenocarcinoma; prostate secretory brotein endometrial cancer; ovarian cancer;
                                                                                                                                                                                                                                                                                                                             Human prostate secretory protein of 94 amino acids
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                                                                                                                                                                                                                                                                                                                                                                                          AA017994
                              Claim
                                                                                          WPI; 2002-471401/50.
                                                                                                                                                                                  15-OCT-2001; 2001WO-CA001463
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45; Conserv
                                                                                                                                 PROCYON BIOPHARMA INC
                                                                                                                                                                                                                                                                                                                                                                                         standard; protein;
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                             Page
                                                                                                                                                                                                                                                                                                                                                                                                                                            SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET
                                                                                                            Panchal CJ,
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                                                                                                                                                     2001CA-02355334.
                                                                                                                                                              2000CA-02321256
                            103; 185pp;
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                                                                                                            Baijal-Gupta M,
                            English
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Pred. No. 6.2
0; Mismatches
                                                                                                                                                                                                                                                                  cytostatic.
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                                                                                                             Fraser
                                               amino acids, useful for adenocarcinoma, stomach, ovarian cancers.
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The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PSP94, also known as prostat

prostatic

Query Match Best Local S Matches 43

Similarity

95.6%; ilarity 100.0%; Conservative

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Score 43; DB; Pred. No. 3e-0; Mismatches

DB 5; 3e-37;

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RESULT 14
AAO17993
ID AAO17
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Best Local
                                    The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PSP94, also known as prostat inhibin peptide (PIP), human seminal plasma inhibin (HSP1) and be microseminoprotein (bets-MSP)). The analogues are useful for inhi growth of tumours, prostatic adenocarcinoma, stomach or gastroint cancer, breast cancer, endometrial, ovarian or other cancers of epithelial secretion, or benign prostate hyperplasia and for trea patients with a disease characterized by elevated levels of FSH.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         inhibin peptide (PIP), human seminal plasma inhibin (HSPI) and beta-
microseminoprotein (bets-MSP). The analogues are useful for inhibitin
growth of tumours, prostatic adenocarcinoma, stomach or gastrointestin
cancer, breast cancer, endometrial, ovarian or other cancers of
epithelial secretion, or benign prostate hyperplasia and for treating
patients with a disease characterized by elevated levels of FSH. The
                                                                                                                                                                                           New human prostate secretory protein of 94 inhibiting growth of e.g. tumor, prostatic gastrointestinal, breast, endometrial, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   beta-microseminoprotein; human seminal plasma inhib
prostate secretory protein of 94 amino acids; prost
stomach cancer; breast cancer; endometrial cancer;
benign prostate hyperplasia; cytostatic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 44 AA;
                                                                                                                                                                      Claim
                                                                                                                                                                                                                                                                                                                                             20-AUG-2001;
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                                                                                                                                                                                                                                                                                                                  PROCYON BIOPHARMA INC
                                                                                                                                                                     Page 103; 185pp; English.
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ilarity 100.0%;
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                           an analogue of the
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eful for inhibiting
or gastrointestinal
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RESULT 15
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KW Cance
KW beta-
KW Stomma
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Search completed: March 11, Job time : 52.2581 secs
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Best Local Similarity
Matches 42; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention relates to analogues of the human prostate secretory protein of 94 amino acids (PSP94, also known as prostatic inhibin peptide (PIP), human seminal plasma inhibin (HSPI) and betamicroseminoprotein (bets-MSP)). The analogues are useful for inhibiting growth of tumours, prostatic adenocarcinoma, stomach or gastrointestinal cancer, breast cancer, endometrial, ovarian or other cancers of epithelial secretion, or benign prostate hyperplasia and for treating patients with a disease characterized by elevated levels of FSH. The present sequence is an analogue of the invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New human prostate secretory protein of 94 amino acids, useful for inhibiting growth of e.g. tumor, prostatic adenocarcinoma, stomach, gastrointestinal, breast, endometrial, and ovarian cancers.
                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 42 AA;
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 Score
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Nature 413:852-856(2001). [3] SEQUENCE FROM N.A. SPECIES-S.typhi; STRAIN=CT18;	ete genome s	guyen C., Scott K., Holmes A., Grewal N H., Florea L., Miller W., Stoneking T., Wilson & V.	ifton S.	J. Bacteriol. 185;2330-2337(2003).  [2] [2] [SECUENCE FROM N.A. SECUENCE FROM N.A. SECUENCE FROM N.A.	Deng W., Liou SK., Flunkett G. III, Maynew G.F., KOSE D.J., Burland V., Kodoyianni V., Schwartz D.C., Blattner F.R., "Comparative genomics of Salmonella enterica serovar Typhi strains Ty2	0931;	<pre>Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales; Enterobacteriaceae; Salmonella. NCBI TaxID=601, 602; [1]</pre>	cal protean STY2382). 703 OR STM2153 OR STY2382. typhi, and typhimurium.	$\alpha - \alpha$	RESULT 1 QBXFD6 ID Q8XFD6 PRELIMINARY; PRT; 93 AA.

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Hypothetical protein; Complete proteome.

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"Nucleotide sequence of the adenovirus type 40 inv
repeat: Close relation to that of adenovirus type
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MEDLINE-88265890; PubMed=2968714;
MEDLINE-88265890; PubMed=2968714;
Ishino M., Ohashi Y., Emoto T., Sawad
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              MEDLINE=20196006; PubMed=10731132;
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Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G.,
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Eukaryota; Metazoa; Arthropoda; Hexapoda; Inse
Neoptera; Endopterygota; Diptera; Brachycera;
Ephydroidea; Drosophilidae; Drosophila.
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Bavison A.J., Telford E.A., Watson M.S., McBride
Davison A.J., Telford B.A., Watson M.S., McBride
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MEDLINE=90111698; PubMed=2481711;
Toogood C.I., Murali R., Burnett R.M.,
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Kidd A.H., Erasmus M.J.;
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RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brottier P.,
RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brottier P.,
RA Bortis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA Dodson K., Doup L.E., Downes M., Dupan-Rocha S., Dunkov B.C., Dunn P.,
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RA Durbin K.J., Evangdista C.C., Ferraz C., Ferriera S., Flaischmann W.,
RA Fosler C., Gabrielian A.E., Garg N.S., Gelbart W.M., Glasser K.,
RA Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
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RA Harris N.L., Harvey D., Heiman T.J., Wei M.-H., Ibegwam C.,
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
RA Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,
RA Merkulov G., Milshina N.V., Mobarry C., Morsh J., Puri V., Reese M.G.,
RA Reinert K., Renington K., Sundders R.D.C., Scheeler F., Shen H.,
RA Shue B.C., Siden-Kiamos I., Simpson M., Strong R., Sun E.,
RA Syler E., Spradling A.C., Stapleton M., Strong R., Sun E.,
RA Syler E., Spradling A.C., Stapleton M., Strong R., Sun E.,
RA Mang Z.-Y., Wassarman D.A., Weinstock G.M., Weissenbach J.,
RA Milliams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A.,
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Evans C.A., Gocayne J.D., Amanatides P.G., Brandon R.C., Rogers Y.,
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A. Dodson K., Dorsett V., Doup L.E., Doyle C., Dresnek D., Farfan D.,
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A. Gonzalez M., Houck J., Hoskins R.A., Hostin D., Howland T.J.,
A. Gonzalez M., Houck J., Hoskins R.A., Mattei B., Moshrefi A.,
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A. Milliams C., Jalali M., Kruse D., Li P., Mattei B., Moshrefi A.,
A. Milliams T.C., Moy M., Murphy B., Nelson C., Nelson K.A., Nunco J.,
A. Pacleb J., Paragas V., Park S., Patel S., Pfeiffer B.,
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Champe M., Chavez C.
Gonzalez M., Guarin
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Adams M.D., Celniker
Submitted (MAR-2000)
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R EMBL; AV061442; AAL28990.1; ...

R FlyBase; FBgn0030969; CG7288.

R GO; GO:0004197; F:cysteine-type endopeptidase activity; IE, GO; GO:0004221; F:ubiquitin thiolesterase activity; IEA, GO; GO:0006511; P:ubiquitin-dependent protein catabolism; InterPro; IPR0011394; Peptidase C19.

R InterPro; IPR001607; Znf_UBP.

R InterPro; IPR001607; Znf_UBP.

R Pfam; PF00443; UCH; 1.

R SMART; SM00239; Znf_UBP; 1.

R PROSITE; PS50335; UCH 2 3; 1.

SEQUENCE 494 AA; 57503 MW; D709B515BCBC8397 CRC64;
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053551;
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Cole S.T., Brosch R., Parkhill J., Garnier T., Churcher C., Harr
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01-JUN-2003 (TrEMBLrel. 24, Last annotation v
Putative CoA-ligase (4-coumarate-CoA ligase,
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Submitted (O
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STRALN=CDC 1551 / Oshkosh;
Fleischmann R.D., Alland D., Eisen J.A., Carpenter L.,
Fleischmann R.D., Alland D., Eisen J.A., Carpenter L.,
Fleterson J., DeBoy R., Dodson R., Gwinn M., Haft D., H.
Kolonay J.F., Nelson W.C., Umayam L.A., Ermolaeva M., Spelcher A., Utterback T., Weidman J., Khouri H., Gill Chertal R., Chertal R., Chertal R., State R., State R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., Chertal R., 
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Submitted (APR-2001) to the
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                                                                                                                                                                                                                                                                                                                                                                                                                       Plasmodium vivax.
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      STRAIN-PNG 50;
                                                                                                                           "Natural variation within the principal Plasmodium vivax duffy binding protein.
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01-MAY-2000
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EMBL; U10106; AAA61636.1; -.

InterPro; IPR008602; Duffy_binding.
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Tsuboi T., Kappe S.H., al-Yaman F.,
Adams J.H.;
                  GLP-1 protein (Fragment)
Caenorhabditis elegans
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Eukaryota; Alveolata;
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01-NOV-1996 (TrEMBLrel.
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  Eukaryota; Metazoa;
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Mol. Biol. Cell 3:1199-1213 (1992).
GO; GO:0016020; C:membrane; IEA.
GO; GO:0030154; P:cell differentiation; II
InterPro; IPR00080; Notch_dom.
Pfam; PF00066; notch; 1.
SMART; SM00004; NL; 1.
SEQUENCE 40 AA; 4357 NW; E71837429A621
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Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygo
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
Ephydroidea; Drosophilidae; Drosophila.

NCBI TaxID=7227;
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01-DEC-2001
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EMBL; AY060920; AAL28468.1; -
FlyBase; FBgg0047271; BcDNA:GM06310.

SEQUENCE 83 AA; 9157 MM; OC4D47380D6B4846 CRC64;
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Kodoyianni V., Maine E.M., Kimble J.;
"Molecular basis of loss-of-function!
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01-OCT-2003 (TrEMBLrel. 25, Last
Putative transcription regulator
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                                        Bacteria; Proteobacteria;
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Science 282:2012-2018(1998).
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Chandler M., Choisne N., Claudel-Renard C., Cunn
Gaspin C., Lavie M., Molsan A., Robert C., Sauri
Gaspin C., Tavie M., Mhalen M., Wincker P.,
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EMBL; AL646071; CAD16317.1; -.

GO; GO:0003677; F:DNA binding; IEA.
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SEQUENCE FROM N.A.
STRAIN=GMI1000;
MEDLINE=21681879; PubMed=11823852;
                                                                               EMBL; Z68006; CAE17869.1; -.
Hypothetical protein; Metalloprotease; Peroxidase.
SEQUENCE 97 AA; 10874 MW; E403BC9B7FCA0D7F CRC64;
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"Structural analys...
Pseudomonas putida.";
J. Biochem. 117:1120-1125(1996).

Biochem. BAA13643.1; -..
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R HSSP; P06958; 1L8A.
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Hypothetical protein.
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Submitted (MAR-2003) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                       Hypothetical protein; SEQUENCE 143 AA; 1
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Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales;
Pseudomonadaceae; Pseudomonas.
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Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales;
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Q9CIQ2;
Q1-JUN-2001
01-JUN-2001
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                                                                                                                                                                                          EMBL; AE006267; AAK04402.1; -.
PIR; H86662; H86662.
GO; GO:0004601; F:peroxidase activity;
InterPro; IPR000866; AhpC-TSA.
Pfam; PF00578; AhpC-TSA; 1.
Peroxidase; Complete proteome.
                                                                                                                                                                                                                                                                                                                                                                         "The complete genome sequence of the lactic acid bacterium Lactoccoccus lactis ssp. lactis IL1403.";
Genome Res. 1:731-753(2001).
EMBL; AB006267; ABK04400.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
STRALN=IL1403;
STRALN=IL1403;
MEDLINE=21235186; PubMed=11337471;
Bolctin A., Wincker P., Mauger S.,
Bolstin A., Wincker P., Mauger S.,
Bolstin A., Bralich S.D., Soro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              esophageal gland cells of the soybean cyst nematode, Het glycines.";
Submitted (APR-2002) to the EMBL/GenBank/DDBJ databases.
EMBL; AF500034; AAF30773.1;
SEQUENCE 146 AA; 14992 MW; D6D7AB455AD1C61C CRC64;
                                                                                                                                                              SEQUENCE
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Putative gland protein G24A12.
Heterodera glycines (Soybean cyst nematode).
Eukaryota; Metazoa; Nematoda; Chromadorea; Tylenchida; Tylenchina;
Tylenchoidea; Heteroderidae; Heteroderinae; Heterodera.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Lactococcus lactis (su
Bacteria; Firmicutes;
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Gao B., Maier T., Allen R., Davis E.L., Baum T.J., Hus
Gao B., Maier T. Allen R., Davis E.L., Baum T.J., Hus
"A comprehensive profile of purative parasitism genes
esophageal gland cells of the soybean cyst nematode, H
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NCBI_TaxID=1360;
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irmicutes; Lactobacillales; Streptococcaceae; L
       Conservative
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           Mismatches
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1 SCYFIPNEGVPGDST
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l: /cgn2_6/ptodata/1/pubpaa
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Copyright (c) 1993 - 2004 Compugen Ltd.
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

; Sequence 1, Application US/09977406A ; Publication No. US20030170220A1 CENERAL INFORMATION:

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## ALIGNMENTS

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RESULT 1

US-09-977-406A-8

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(S-09-977-406A-8)

(PUDICATION OF CONTROL INC.

APPLICANT: PROCYON BIOPHARMA INC.

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APPLICANT: PROCYON BIOPHARMA INC.

FILLY SERERENCE: 06508-030-US-03

CURRENT APPLICATION UNMEER: US/09/977,406A

CURRENT FILING DATE: 2001-10-15

PRIOR APPLICATION NUMBER: CA 2,321,256

PRIOR APPLICATION NUMBER: CA 2,325,334

PRIOR APPLICATION NUMBER: CA 2,325,334

PRIOR APPLICATION NUMBER: CA 2,355,334

PRIOR APPLICATION NU
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US-10-291-360-1
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR PRIOR DATE: 2001-08-20
NUMBER OF SEQ ID NOS: 92
SOFTWARE: PatentIn version 3.1
SEQ ID NO 1
SEQ ID NO 1
SEQ ID NO 1
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                                                                                                                                                              ORGANISM: Homo sapiens
PUBLICATION INFORMATION:
AUTHORS: Ulvsback, M., Lindstrom, C., Weiber, H., Abrahamson,
AUTHORS: Lundwall, An
TITLE: Molecular cloning of a small prostate protein, known as
TITLE: microsemenoprotein, PSP94 or beta-inhibin, and demonstr
TITLE: non-genital tissues.
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PSP-94: Use for Treatment of Hypercalcemia and Bone metastasis
FILE REFERENCE: 06508-051-US-02
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                                                                                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE: PatentIn version 3.1
  PAGES: 1310-1315
DATE: 1989
DATABASE ACCESSION NUMBER: GI 131436
DATABASE ENTRY DATE: 1988-08-01
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AUTHORS: Ulvsback, M., Lindstrom,
AUTHORS: Lundwall, A"
                                                                                                                                    JOURNAL: B10
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DATABASE ENTRY DATE: 1988-08-01
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DATE: 1989
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  VOLUME: 164
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    JOURNAL: Biochem. Biophys. Res Commun.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE: Molecular cloning of a small prostate protein, known as beta-
TITLE: microsemenoprotein, PSP94 or beta-inhibin, and demonstration of transcripts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                  ENGTH:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Local
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45; Conser
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                                                                                                                                                                                                            prostate protein, known as beta-
beta-inhibin, and demonstration of
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US-10-291-360-2
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                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 2, Application US/10291360
Publication No. US20030119744A1
GENERAL INFORMATION:
APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: DSP-94; Use for Treatment of Hypercalcemia and Bone metastasis
                                                                                                                                                                                                                                                                                SOFTWARE: PatentIn version 3.1 SEQ ID NO 2
                                                                             Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 2, Application US/09977406A Publication No. US20030170220A1 GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                        FILE REFERENCE: 06508-051-US-02
CURRENT APPLICATION NUMBER: US/10/291,360
CURRENT FILING DATE: 2002-11-08
PRIOR APPLICATION NUMBER: CA 2,361,736
PRIOR FILING DATE: 2001-11-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Best Local Similarity
Matches 45; Conserv
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 0.6508-030-US-03
CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
CURRENT FILING DATE: 2001-10-15
                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQ ID NOS: 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
NUMBER OF SEQ ID NOS: 92
SOFTWARE: PatentIn version 3.1
                                                                                                                                                                             FEATURE: OTHER INFORMATION: recombinant human PSP94 (rHuPSP94) produced from yeast
                                                                                                                                                                                                                TYPE: PRT ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                               LENGTH: 102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
ORGANISM: Artificial Sequence
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5.
                                                                                                Similarity
SCYFIPHEGVEGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET
                     SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 45
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llarity 100.0%;
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Conservative 0;
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                                                                           Score 45; DB 14;
Pred. No. 3.8e-41;
; Mismatches 0;
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Pred. No. 3.8e-41;
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hes 0;
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53
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RESULT

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Query Match

100.0%;

Score 45;

DB 14;

Length

94;

US-10-012-896-1003

INFORMATION:

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John

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US-10-205-823-271
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Publication No. US20
GENERAL INFORMATION:
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                                                                                    APPLICANT: Anderson, Dustin
TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS,
TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSE
TITLE OF INVENTION: THERAPY OF PROSTATE CANCER
                                                                                                                                                                                  APPLICANT:
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                     URRENT APPLICATION NUMBER: US/10/205,823
URRENT FILING DATE: 2002-07-25
                                                                        REFERENCE: MRI-044
APPLICATION NUMBER: 60/307,982
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Endege, Wilson O.
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Kamatkar, Shubhangi
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Gorbatcheva, Bella
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CURRENT APPLICATION NUMBER: US/10/012,896
CURRENT FILING DATE: 2001-12-10
NUMBER OF SEQ ID NOS: 1011
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 1003
LENGTH: 114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 1003, Application US/10012896 Publication No. US20020183251A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PPLICANT: Meagher, Madeleine Joy
ITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
ITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
                                                                                                                                                                                                                           cn 100.0%; Score 45; DB 13; Length 114; 1 Similarity 100.0%; Pred. No. 4.2e-41; 45; Conservative 0. Minimizer.
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Kalos, Michael D.
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Dillon, Davin C
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; SEO ID NO 271

; LENGTH: 114

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-205-823-271
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PRIOR APPLICATION NUMBER: 60/314,356
PRIOR FILING DATE: 2001-08-25
PRIOR PELICATION NUMBER: 60/325,020
PRIOR FILING DATE: 2001-09-25
PRIOR FILING DATE: 2001-09-25
PRIOR FILING DATE: 2001-12-12
PRIOR FILING DATE: 2001-12-12
PRIOR APPLICATION NUMBER: 60/362,158
PRIOR APPLICATION NUMBER: 60/362,158
PRIOR FILING DATE: 2002-03-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 1003, Application US/10144678A
Publication No. US20030157089A1
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                                                                                  APPLICANT:
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    APPLICANT:
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                                       Houghton, Raymond L. Vinals y de Bassols, Foy, Teresa M.
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Mitcham, Jennifer L.
                                                                                  McNeill, Patricia D.
Houghton, Raymond L.
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Carter, Darrick
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Kalos, Michael D.
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Vatanabe, Yoshihiro
Deng, Ta
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Mepler, William T.
                                                                                                                                                                                                          , Samuel X.
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                                                                 Carlota
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Teresa

; TYPE: PRT ; ORGANISM: Homo sapiens US-10-012-896-1003

Query Match Best Local

Matches

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Score 45; DB 14; Pred. No. 4.2e-41; ; Mismatches 0;

DB 14; Length 114;

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Matches

45;

Query Match Best Local Similarity

100.0%; ilarity 100.0%; Conservative 0;

US-10-144-678A-1003

ORGANISM: Homo sapiens

ENGTH:

114

CURRENT APPLICATION NUMBER: US/10/144,678A CURRENT FILLING DATE: 2002-08-12 NUMBER OF SEQ ID NOS: 1033 SOFTWARE: FastSEQ for Windows Version 3.0 SEQ ID NO 1003

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER FILE REFERENCE: 210121.427C28

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Best Local S
Matches 45
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Best Local S
Matches 45
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CURRENT APPLICATION NUMBER: US/10/294,025
CURRENT FILING DATE: 2002-11-12
NUMBER OF SEQ ID NOS: 1038
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 1003
LENGTH: 114
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                                                                                                                                                                                                                                SEQ ID NO 236
LENGTH: 114
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
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APPLICANT: Stolk, John A.
APPLICANT: Kalos, Michael D.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
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TITLE OF INVENTION: No. U
FILE REFERENCE: 21272-045
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                                                                                                                                                                                                                                                                                              PRIOR APPLICATION NUMBER: 09/519,705
PRIOR FILING DATE: 2000-03-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                              CURRENT APPLICATION NUMBER: US/10/291,172
CURRENT FILING DATE: 2000-11-08
PRIOR APPLICATION NUMBER: 09/693,267
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 09/665,363
PRIOR FILING DATE: 2000-09-19
                                                                                                                                                                                                              LENGTH:
TYPE: PF
                                                                                                                                                                                      ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                      Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: 09/616,847
                                                                                                                                                                                                                                                                                                                                                                         FILING DATE: 2000-07-14
APPLICATION NUMBER: 09/596,193
FILING DATE: 2000-06-17
                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: FILING DATE: 2000-0
21
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                                                                                                                                                                                                                                                                          SEQ ID NOS:
  SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 65
                                     SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 65
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                                                                                    Conservative
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                                                                                                                                                                                                                                                                                            2000-03-07
                                                                                                                                                                                                                                                                                                                                        2000-05-19
                                                                                                   100.0%; Score 45; DB 15;
100.0%; Pred. No. 4.2e-41;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        100.0%; Score 45; DB 14; Length 114; 100.0%; Pred. No. 4.2e-41;
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                                                                                                                                                                                                                                                                                                                                                        09/574,454
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                                                                                                                       Length 114;
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                                                                                    Indels
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RESULT 11

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PRIOR APPLICATION NUMBER: PCT/US00/05988
PRIOR FILING DATE: 2000-03-08
PRIOR APPLICATION NUMBER: 60/124,270
PRIOR FILING DATE: 1999-03-12
NUMBER OF SEQ ID NOS: 1890
SOFTMARE: Patentin Ver. 2.0
SEQ ID NO 1027
LENGTH: 132
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Best Local Similarity
Matches 45; Conserve
                                                                                                                                       RESULT 13
US-09-977-406A-86
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                                                                                                                                                                                                                                                                                                                                                                                      ; OTHER INFORMATION: US-09-977-406A-87
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                                                                         Sequence 86, Application US/09977406A Publication No. US20030170220A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOFTWARE: POSEQ ID NO 87
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 87, Application US/09977406A
Publication No. US20030170220A1
GENERAL INFORMATION:
APPLICANT: PROCYON BIOPHARMA INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 1027, Application US/09925300 Patent No. US20020151681A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                         Matches
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: CA 2,321,256
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS
FILE REFERENCE: 06508-030-US-03
                 APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Craig Rosen,
APPLICANT: Steve Ruben
TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
CURRENT APPLICATION NUMBER: US/09/977,406A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
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                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURE:
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                                                                                                                                                                                                                                                                                                                        Similarity
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Pred. No. 4.8e-41
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2.2e-40;
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NUMBER OF SEQ ID NOS: 92 PRIOR APPLICATION NUMBER: PRIOR FILING DATE: 2001-08

2001-08-20

CA 2,355,334

PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16

CURRENT FILING DATE:

2001-10-15

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RESULT 15
US-09-977-406A-84
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ) OTHER INFORMATION: Polypeptide derived from rHuPSP94 sequence (polypeptide analog)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
                                                                                                                                                                                                                       Sequence 84, Application US/09977406A Publication No. US20030170220A1 GENERAL INFORMATION:
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Best Local Similarity
Matches 42; Conserv
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SOFTWARE: PatentIn version 3.1
SEQ ID NO 85
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                                                                                             APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PHARMACOUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION NUMBER: US/09/977,406A CURRENT FILING DATE: 2001-10-15 PRIOR APPLICATION NUMBER: CA 2,321,256 PRIOR FILING DATE: 2000-10-16 PRIOR APPLICATION NUMBER: CA 2,355,334 PRIOR FILING DATE: 2001-08-20 PRIOR FILING DATE: 2001-08-20 PRIOR FILING DATE: 2001-08-20
                   PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
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ORGANISM: Artificial Sequence
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TYPE: PRT
ORGANISM: Artificial Sequence
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hes 43; Conserv
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SEQ ID NOS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    93.3%; Score 42; DB vilarity 100.0%; Pred. No. 3.: Conservative 0; Mismatches
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Pred. No. 3.1e-38;
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PatentIn version 3.1

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                                                                                                                                 ; FEATURE:
; OTHER INFORMATION: Polypéptide derived from rHuPSP94 sequence US-09-977-406A-84
                                                                                                                                                                               SEQ ID NO 84
LENGTH: 41
TYPE: PRT
ORGANISM: Artificial Sequence
                                                          Query Match 91.1
Best Local Similarity 100.
Matches 41; Conservative
                               5 IPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 45
IPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 41
                                                                             91.1%; Score 41; DB 10; 100.0%; Pred. No. 3.6e-37;
                                                                   0;
                                                                 Mismatches
                                                                                             Length 41
                                                                 Indels
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Search completed: March 11, 2004, 18:25:49 Job time: 30.7581 secs

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Result
No.
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Maximum DB seq length: 200000000
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Perfect score:
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Match
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Gapop 60.0 , Gapext 60.0
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1: sp_archea:*

2: sp_bacteria:*
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                                                                                                                                                                                                                                                                                                                                                                                                                       sp_rodent:*
sp_virus:*
sp_vertebrate:*
sp_unclassified:*
sp_rvirus:*
sp_acteriap:*
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sp_phage:*
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                             Q945d4 castanea sa
Q8gf56 zymomonas m
Q80jb6 influenza a
Q8jmv5 influenza a
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Q840a4 listeria mo
Q840a5 listeria mo
Q840a5 listeria mo
Q83u86 listeria mo
Q83u86 listeria mo
Q93tb3 listeria mo
Q9vh00 drosophila
Q915b9 listeria mo
Q915b9 listeria mo
Q9ay2 oryza sativ
Q91ca4 arabidopsis
Q86818 influenzavi
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"Development of real-time PCR systems based in Amplifluor at technologies for specific quantitative detection of Listeri monocytogenes and Listeria innocua.";

Submitted (NOV-2002) to the EMBL/GenBank/DDBJ databases.

EMBL; ANIT4662; AA046020.1;

R GO; GO:001548; F:cholesterol binding; IEA.

R GO; GO:0015070; F:toxin activity; IEA.

R GO; GO:0015070; F:toxin activity; IEA.

R GO; GO:001865; Thologenesis; IEA.

R FRINTS; PRO1100; TACYTOLYSIN.
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"Development of real-time PCR systems based in Amplifluor and Ta
T technologies for specific quantitative detection of Listeria
T monocytogenes and Listeria innocua.";

Submitted (NOV-2002) to the EMBL/GenBank/DDBJ databases.

R EMBL; AXI74659; AAO46017.1; --
R GO; GO:0015485; F:cholesterol binding; IEA.
R GO; GO:0015970; F:toxin activity; IEA.
R GO; GO:0015070; F:toxin activity; IEA.
R GO; GO:0009405; P:pathogenesis; IEA.
R Interpro; IPR001869; Thiol cytolysin.
R PRINTS; PR01400; TACYTOLYSIN.
R PRODOm; DD007062; Thiol_cytolysin; 1.
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01-OCT-2003 (TrEMBLrel.
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01-OCT-2003 (TrEMBLrel. 25,
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STRAIN-CECT 935, CECT 936, CECT 940, CTC 1034, and CECT 4032;

CSTRAIN-CECT 935, CECT 936, CECT 940, CTC 1034, and CECT 4032;

A Rodriguez-Lazaro D., Hernandez M., Esteve T., Pla M.;

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Rodriguez-Lazaro D., Hernandez M., Esteve T., Pla M.;
"Development of real-time PCR systems based in Ampliflux
technologies for specific quantitative detection of List
monocytogenes and Listeria innocua.";
Submitted (NOV-2002) to the EMBL/GenBank/DDBJ databases
EMBL; AY174657; AA046015.1;
EMBL; AY174663; AA046016.1;
EMBL; AY174663; AA046011.1;
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Bacteria; Firmicutes; Bacillales;
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3 (TremBlrel. 25,
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EMBLrel. 24,
EMBLrel. 25,
(Fragment).
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Last annotation update)
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RESULT
Q9VH00
RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D., Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D., ARA Mamartides P.G., Scherer S.E., Holt R.A., Shburner M., Henderson S.N., RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N., RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N., RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N., RA George R.A., Lewis S.E., Richards J., Chang Q., Chen L.X., RA George R.A., Lewis R.A., Randell M.D., Zhang Q., Chen L.X., Miklos G.L.G., Randon R.C., Royal R.G., Helt G., Nelson C.R., Miklos G.L.G., RA Barlew R.M., Dayle C., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G., RA Barlew R.M., Basu A., Baxendale J., Baytaktaroglu L., Beasley E.M., RA Belew R.M., Basu A., Baxendale J., Brokstein P., Brottier P., Ra Burkis K.C., Busam D.A., Burler H., Cadieu E., Center A., Chandra I., RA Burkis K.C., Busam D.A., Burler H., Cadieu E., Center A., Chandra I., RA Burkis K.C., Busam D.A., Burler H., Cadieu E., Center A., Chandra I., RA Burkis K.C., Wanglaista C.C., Ferrac C., Ferricas S., Fleischmann W., Rosler C., Gabrielian A.E., Garg N.S., Gelbart W.M., Glasser K., RA Durbin K.J., Wrangelista C.C., Ferrac C., Ferricas S., Fleischmann W., Rosler K.J., Goorg F., Gorrell J.H., Gu Z., Guan P., Harris K., RA Glodek A., Gong F., Gorrell J.H., Ke Z., Kennison J.A., Ketchum K.A., RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J., Houck J., Howland T.J., Wei M.-H., Ibegwam C., Jalail M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A., RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A., Mount S.M., Moy M., Murphy B., Murphy L., Murphy L., Murphy L., Laiz Z., Liang Y., Lin X., Li J., Liang Y., Lin X., RA Melson D.R., Nelson K.A., Naton K., Murshy D.M., Nelson D.L., Racket C., Scheeler F., Shen H., Ra Shue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Kaese M.G., Ra Milliams S.M., Woodage T., Werler S., Wang A.H., Wang X., Yao Q.A., Zheng L., Yao Q., Zheng L., Liang S., Ya
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01-MAY-2000 (Trew
01-MAY-2000 (Trew
CG12818 protein.
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ProDom; PD007062; Thiol_cytolysin; 1.
NON TER 143 AA. 1777-
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Bukaryota; Metazoa; Arthropoda; Haxaboda; Insecta; Pterygo
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;

Ephydroidea; Drosophilidae; Drosophila.
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EMBL; AX174668; AAO46024.1; --
EMBL; AX174668; AAO46026.1; --
EMBL; AX174668; Ficholesterol binding; GO; GO:0015485; Ficholesterol binding; GO; GO:0005405; Ficaxin activity; IEA. GO; GO:0009405; Pipathogenesis; IEA. INTERFO; IPR001869; Thiol_ytolysin.
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Pred. No.
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RESULT
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Glbbs R.A., Myers E.W., Rubin G.I
"The genome sequence of Drosophi
Science 287:2185-2195(2000).
EMBL; ABG03666; AAF54521.1; -
FlyBase; FBG00037809; CG12818.
SEQUENCE 288 AA; 33386 MW; 8:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         O9L5B9; PRELIMINARY;
Q9L5B9;
01-OCT-2000 (TrEMBLrel. 1
01-OCT-2000 (TrEMBLrel. 1
01-OCT-2003 (TrEMBLrel. 2
                                                                                                    Q9AYE2;
Q9AYE2;
01-JUN-2001
01-JUN-2001
01-OCT-2003
Hypothetical protein.
OSJNBA0003G23.16.
OTYZA SATIVA (Rice).
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
Ehrhartoideae; Oryzeae; Oryza.
MCBI TaxID=4530;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "Expression in E. coli and sequence analysis of (hlyA) gene of Listeria monocytogenes.";
Submitted (APR-2000) to the EMBL/GenBank/DDBJ EMBL; AF253320; AAF64524.1; -...
HSSP, P19995; 1PFO.
                                                                                                                                                                                                                                                                                                                                            ProDom; PD007062; Thiol_cytolysin; 1.
PROSITE; PS00481; THIOL_CYTOLYSINS; 1
SEQUENCE 529 AA; 58755 MW; 897041
                                                                                                                                                                                                                                                                                                                                                                                        InterPro; IPR001869; Thiol_cytolysin.
Pfam; PF01289; Thiol_cytolysin; 1.
PRINTS; PR01400; TACYTOLYSIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                GO; GO:0015485; F:cholesterol binding; GO; GO:0015070; F:toxin activity; IEA. GO; GO:0009405; P:pathogenesis; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STRAIN=ATCC 952
Giammarini C.,
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Bacteria; Firmicutes; B
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Buell C.R., Yuan Q., Moffat K.S., Hill J.N., Burr P.C., Hsiao J.,
Zismann V., Pai G., Bowman C.L., Fujii C.Y., VanAken S.E.,
Zismann V., Pai G., Bowman C.L., Fujii C.Y., VanAken S.E.,
Bowman C.L., Craven B., Utterback T.R., Khalak H., Feldblyum T.V.
Quackenbush J., White O., Salzberg S.L., Fraser C.M.;
"Oryza sativa chromosome 3 BAC OSJNBa00323 genomic sequence.";
Submitted (AUG-2001) to the EMBL/GenBank/DDBJ databases.
SMBL; ACO79736; AAK00966.1; -.
Gramene; OgAYE2; -.
Fypothetical protein.
SEQUENCE 848 AA; 93068 MW; 36166A59E62723F6 CRC64;
Q86818;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "Structural analysis of Arabidopsis thaliana chromosome Submitted (APR-1999) to the EMBL/GenBank/DDBJ databases. EMBL; AB025613; BAA98156.1; -. SEQUENCE 1378 AA; 156840 MW; AF8D028F0F4E865E CRC64;
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Bukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids;

eurosids II; Brassicales; Brassicaceae; Arabidopsis.
                                                                                                                                       SEQUENCE FROM N.A.
MEDLINE=94378528; PubMed=8091680;
Orlich M., Gottwald H., Rott R.;
                                                                                                                                                                                                                                                                                                                                                                                              Hemagglutinin (Fragment) HA-NP.
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Influenza A viruses.
NCBI_TaxID=197911;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score Pred.
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annotation update)
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No.
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72;
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SOURCE SERVICE SERVICES SOURCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT
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Best Local S
Matches 6
SEQUENCE FROM N.A.

STRAIN=ZM4;
Seo J., Park H., Kim H., Wang K., Yoon K., Rhee Kim M., Park C., An Y., Choi E.;
Submitted (OCT-2001) to the EMBL/GenBank/DDBJ da.

Submitted (OCT-2001) to the EMBL/GenBank/DDBJ da.

EMBL; AY057845; AAL36112.1; -
EMGL; AY057845; AAL3612.1; -
EMGL; AY057845; AAL36112.1; -
EMGL; AY057845; AAL36112.1; -
EMGL; AY057845; AAL36112.1; -
EMGL; AY057845; AAL36112.1; -
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Best Local
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01-MAR-2003
01-MAR-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-DEC-2001 (TrEMBLrel. 19, Created)
01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-DEC-2003 (TrEMBLrel. 24, Last sequence update)
01-DUN-2003 (TrEMBLrel. 24, Last annotation update)
Translation elongation factor 1 alpha-like protein (Fragment).
Castanea sativa (Sweet chestnut)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EMBL, 873497; AAB31976.1; --
GO; GO:0005198; F:structural
InterPro; IPR002141; Flu NP.
Pfam; PF00506; Flu NP; 1.
                                                                                                                                                                                                                                                                                              Bacteria; Proteobacteria;
Sphingomonadaceae; Zymomor
NCBI_TaxID=542;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Q8GF56
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Elongation factor.
NON TER 1
SEQUENCE 33 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Schafleitner R., Wilhelm E.;
"Wound-responsive genes of chestnut.";
Submitted (SEP-2001) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Viridiplantae; Streptophyta; Embryo
Spermatophyta; Magnoliophyta; eudicotyledons;
eurosids I; Fagales; Fagaceae; Castanea.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Q945D4
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GO; GO:0003746; F:translation elongation factor activity;
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6; Conserve
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                                                                                                                                                                                                                                                                                                                                   Zymomonas
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13 55

KTCSVS KTCSVS

18 60

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Query Match Best Local S Matches 6

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Conservative

9.4%; 100.0%

Score 6; Pred. No.

DB . 47;

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Length 43;

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Mismatches

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01-JUN-2003 (TrEMBLrel.
01-OCT-2003 (TrEMBLrel.
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Influenza A virus (A/Cinnamon Teal/1/1916)
Viruses; ssRNA negative_strand viruses; Or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "Relationship of Pre-1918 Avian Influenza Subsequent Avian Influenza Strains."; Avian Dis. 0:0-0(2003).
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STRAIN=A/Cinnamon Teal/1/1916;
Reid A.H., Fanning T.G., Slemons R.D., Janczewski T.A., Dean J.,
Taubenberger J.K.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Influenza A viruses; Influenzavirus
NCBI TaxID=224211;
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STRAIN=A/Brant goose/1/1917;
Fanning T.G., Slemons R.D., Reid A.H., Jar
Taubenberger J.K.;
"Relationship of Pre-1918 Avian Influenza
                                                                                                                                                                                                  Taubenberger J.K.;
"1917 Avian Influenza Virus Sequences Suggest that the 1918 Pandemic Virus Did Not Acquire Its Hemagglutinin Directly from Birds.";
J. Virol. 76:7860-7862(2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Influenza A virus (A/Brant Goose/1/1917(H1N?)).
Viruses; ssRNA negative-strand viruses; Orthomy
Influenza A viruses; Influenzavirus A.
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STRAIN=A/Brant gcose/1/1917;
MEDLINE=22092538; PubMed=120
Fanning T.G., Slemons R.D.,
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01-OCT-2003
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01-OCT-2002
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Slemons R.D., Reid A
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Pred. No.
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                                                                   Janczewski T.A., Dean
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Avian Dis. 0:0-0(2002).
EMBL; AY095228; AAM22279.1; -
GO; GO:0005198; F:structural
                                                                                                                                                                                                                                                                                                                                                   STRAIN-A/WI/4754/94;
STRAIN-A/WI/4754/94;
Wentworth D.E., McGregor M.W., Macklin
"Transmission of Swine Influenza Virus
"Transmission of Transmission of Pigs.";
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                                                                                                                                                                                                                                                                                                                           Experimentally Infected Pigs. Submitted (MAR-1996) to the H
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Viruses; ssRNA negative-strand viruses; Orthomyxoviridae; Influenza A viruses.
NCBI TaxID=197911;
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Pfam; PF00506; Flu_NP; 1.
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Copyright (c) 1993 - 2004 Compugen Ltd
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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Sequence 54, Appi		Sequence 56, Appl	57	Sequence 1027, Ap	•		Sequence 1003, Ap	Sequence 271, App		Sequence 2, Appli	Sequence 2, Appli	Sequence 1, Appli	Sequence 1, Appli	Sequence 58, Appl	Description

RESULT 2

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### ALIGNMENTS

RESULT 1 US-09-977-406A-58

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SEQ ID NO 58
LENGTH: 64
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                                                                                                                                                                                                    Query Match
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS FILE REFERENCE: 06508-030-US-03
CURRENT APPLICATION NUMBER: US-09/977,406A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR PILING DATE: 2000-10-16
PRIOR PILING DATE: 2001-08-20
NUMBER: OF SEQ. ID NOS: 92
NUMBER: OF SEQ. ID NOS: 92
NUMBER: OF SEQ. ID NOS: 92
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ORGANISM: Artificial Sequence
FEATURE:
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                                                                            1 EWQTDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS
                                                                                                           1 EWQTDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS
                                                                                                                                                           h 100.0%; Score 64; DB 10; Similarity 100.0%; Pred. No. 5.9e-59; 64; Conservative 0; Mismatches 0;
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                                                                                                                                                                                                                                           PRIOR APPLICATION NUMBER: CA 2,361,736
PRIOR FILING DATE: 2001-11-09
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn version 3.1
SEQ ID NO 1
                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PSP-94: Use for Treatment of Hypercalcemia and Bone metastasis
FILE REFERENCE: 06508-051-US-02
CURRENT APPLICATION NUMBER: US/10/291,360
CURRENT FILING DATE: 2002-11-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        -09-977-406A-1
                  PUBLICATION INFORMATION:
AUTHORS: Ulvsback, M., Lindstrom, C., Weiber, H., Abrahamson, P.A., Lilja, H., and
AUTHORS: Lundwall, A"
TITLE: Molecular cloning of a small prostate protein, known as beta-
TITLE: microsemenoprotein, PSP94 or beta-inhibin, and demonstration of transcripts
TITLE: non-genital tissues.
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PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
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PAGES: 1310-1315
DATE: 1989
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PUBLICATION INFORMATION:
AUTHORS: Ulvaback, M., Lindstrom, C., Weiber, H., Abrahamson,
AUTHORS: Lundwall, A"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQ ID NOS: 92
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILE REFERENCE: 06508-030-US-03
                                                                                                                                                                                                    TYPE: PRT
                                                                                                                                                                          ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DATABASE ACCESSION NUMBER: GI 131436
DATABASE ENTRY DATE: 1988-08-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE: Molecular cloning of a small prostate protein, TITLE: microsemenoprotein, PSP94 or beta-inhibin, and TITLE: non-genital tissues.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        JOURNAL: Biochem. Biophys. Res Commun.
VOLUME: 164
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  Biochem.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EWII 64
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Biophys. Res Commun
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demonstration of transcripts
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PRIOR APPLICATION NUMBER: CA 2,361,736
PRIOR FILING DATE: 2001-11-08
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn version 3.1
SEQ ID NO 2
LENGTH: 102
                                                                                                                                                                                                                    Sequence 2, Application US/10291360 Publication No. US20030119744A1 GENERAL INFORMATION:
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LENGTH: 102
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Best Local .
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Best Local :
                                                                                                                   CURRENT APPLICATION NUMBER: US/10/291,360 CURRENT FILING DATE: 2002-11-08
                                                                                                                                                      APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PSP-94: Use for Treatment of Hypercalcemia and Bone metastasis
FILE REFERENCE: 06508-051-US-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS
FILE REFERENCE: 06508-030-0US-03
CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
NUMBER OF SEQ ID NOS: 92
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PRIOR FILING DATE: 2000-10-16
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OTHER INFORMATION: recombinant human PSP94 (rHuPSP94) produced from yeast
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT
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PAGES: 1310-1315
DATE: 1989
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US-10-012-896-1003
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                                  В
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                                                                                                                                                                  ; ORGANISM: Homo sapiens US-10-012-896-1003
                                                                                                                                                                                                             CURRENT APPLICATION NUMBER: US/10/012,896
CURRENT FILING DATE: 2001-12-10
NUMBER OF SEQ ID NOS: 1011
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 1003
LENGTH: 114
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Best Local Similarity
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                                                                                                    Matches
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                                                                                                                                                                                                                                                                                              APPLICANT: Fanger, Gary R.
APPLICANT: Wantanabe, Yoshihiro
APPLICANT: Meagher, Maddleine Joy
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.42.7027
FILE REFERENCE: 210121.42.7027
                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
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   61 EWII 64
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                                                                                                    64;
                                                                                                                   Similarity
                                  EWQTDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS 60
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Kalos, Michael D.
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Mitcham, Jennifer L.
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Houghton, Raymond L.
Vinals de Bassols, Carlota
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Hepler, William T.
Henderson, Robert A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Day, Craig H.
Vedvick, Thomas S.
Carter, Darrick
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                                                                                                100.0%; ilarity 100.0%; Conservative 0
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Pred. No. 8.9e-59;
); Mismatches 0;
                                                                                                Score 64; DB 13; Length 114; 
Pred. No. 9.9e-59; 
Nismatches 0; Indels
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EWII 114

US-10-144-678A-1003

GENERAL INFORMATION:

APPLICANT: Xu, Jiangchun APPLICANT: Dillon, Davin C. APPLICANT: Mitcham, Jennifer L.

APPLICANT:

Harlocker, Susan L. Jiang, Yuqiu

Robert A.

APPLICANT:

Henderson, Rober
Kalos, Michael D
Fanger, Gary R.
Retter, Marc W.
Stolk, John A.
Day, Craig H.

Vedvick, Thomas S. Carter, Darrick Li, Samuel X.

APPLICANT: APPLICANT: Sequence 1003, Application US/10144678A Publication No. US20030157089A1

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RESULT 7
US-10-205-823-271
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CURRENT FILING DATE: 2002-07-25
PRIOR APPLICATION NUMBER: 60/307,982
PRIOR FILING DATE: 2001-07-25
PRIOR PILING DATE: 2001-08-22
PRIOR APPLICATION NUMBER: 60/325,020
PRIOR APPLICATION NUMBER: 60/325,020
PRIOR APPLICATION NUMBER: 60/341,746
PRIOR APPLICATION NUMBER: 60/341,746
PRIOR APPLICATION NUMBER: 60/341,746
PRIOR APPLICATION NUMBER: 60/341,746
PRIOR APPLICATION NUMBER: 60/341,746
PRIOR APPLICATION NUMBER: 60/362,158
PRIOR APPLICATION NUMBER: 60/362,158
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SEQ ID NO 271
LENGTH: 114
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                                                                                                                                                                 Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
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NUMBER OF SEQ ID NOS: 455
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TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS,
TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSI
TITLE OF INVENTION: THERAPY OF PROSTATE CANCER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
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                                                                                                                                                              y Match 100.0%; Score 64; DB 14; Local Similarity 100.0%; Pred. No. 9.9e-59; hes 64; Conservative 0; Mismatches 0;
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111 EWIT 114
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                                       61 EWII 64
                                                                                                                         1 EWOTDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS
                                                                               EWQTDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS
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Gorbatcheva, Bella
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Endege, Wilson O.
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Zhao, Xumei
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Kamatkar, Shubhangi
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                                                                                                                                                                                                             Length 114;
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RESULT 10
US-10-291-172-236
; Sequence 236, Application US/10291172
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                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Xu, Jiangchun
APPLICANT: Xtolk, John A.
APPLICANT: Stolk, John A.
APPLICANT: Kalos, Michael D.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C29
FURRENT APPLICATION NUMBER: US/10/294,025
CURRENT APPLICATION NUMBER: US/10/294,025
CURRENT FILING DATE: 2002-11-12
NUMBER OF SEC ID NOS: 1038
SOPTWARE: FastSEQ for Windows Version 3.0
SEQ ID 1003
SEQ ID 1003
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Best Local S
Matches 64
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CURRENT APPLICATION NUMBER: US/10/144,678A

CURRENT FILING DATE: 2002-08-12

NUMBER OF SEQ ID NOS: 1033

SOFTWARE: FastSEQ for Windows Version 3.0

SEQ ID NO 1003

LENGTH: 114
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ORGANISM: Homo sapiens
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                                                                                                                                          61 EWII 64
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Skeiky, Yasır A. W.
Hepler, William T.
Hural, John
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Pred. No. 9.9e-59;
Mismatches 0;
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CURRENT APPLICATION NUMBER: US/09/925,300
CURRENT FILING DATE: 2001-08-10
PRIOR APPLICATION NUMBER: PCT/US00/05988
PRIOR FILING DATE: 2000-03-08
PRIOR APPLICATION NUMBER: 60/124,270
PRIOR FILING DATE: 1999-03-12
NUMBER OF SEQ ID NOS: 1890
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; Sequence 1027, Application
; Patent No. US20020151681A1
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                                                                                                                                                                Query Match
Best Local Similarity
Matches 64; Conserv
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SEQ ID NO 1027
LENGTH: 132
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LENGTH: 114
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Best Local (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
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FILE REFERENCE: 21272-045
CURRENT APPLICATION NUMBER: US/10/291,172
CURRENT FILING DATE: 2000-11-08
PRIOR APPLICATION NUMBER: 09/693,267
PRIOR FILING DATE: 2000-10-20
PRIOR FILING DATE: 2000-10-20
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PRIOR FILING DATE: 2000-09-19
PRIOR APPLICATION NUMBER: 09/616,847
PRIOR FILING DATE: 2000-07-14
PRIOR APPLICATION NUMBER: 09/596,193
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PRIOR FILING DATE: 2000-05-19
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PRIOR FILING DATE: 2000-03-07
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129 EWII 132
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                                        61 EWII 64
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                                                                                                                                                                100.0%; Score 64; DB 9; 1 larity 100.0%; Pred. No. 1.1e-58; Conservative 0; Mismatches 0;
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US-09-977-406A-56
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US-09-977-406A-57
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                                                                                                                         Query Match
Best Local
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Best Local Similarity
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SEQ ID NO 57
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PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
PRIOR FILING DATE: 2001-08-20
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CURRENT APPLICATION N
CURRENT FILING DATE:
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NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION NUMBER: CA 2,321,256 PRIOR FILING DATE: 2000-10-16
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
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                                                                                                                                                                                                                        ORGANISM: Artificial Sequence
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ORGANISM: Artificial Sequence
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EW 62
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100.0%; Pr
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Pred. No.
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US-09-977-406A-54
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SEQ ID NO 54
LENGTH: 60
                                                Matches
                                                                                   Query Match
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LENGTH: 61
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APPLICANT: PROCYON |
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CURRENT ETIING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR ETIING CAMPAGER: CA 2,355,334
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
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PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
                                                                                                                                                             LENGTH: 60
TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                  NUMBER OF SEQ ID NOS: 92
                                                                                                                                                                                                                                                                                       PRIOR FILING DATE:
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REPERENCE: 06508-030-US-03
                                                                                                                                                       FEATURE:
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                                                                                                                                    OTHER INFORMATION: Polypeptide derived from rHuPSP94 sequence (polypeptide analog
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		₩			SUMMARIES		
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"Functional annotation of a full-length mouse cDNA collection."; Nature 409:685-690(2001). [2] SEQUENCE FROM N.A.	Nordone F., Ring B., Ringwald M., Rodriguez I., Sakamoto N., Nordone F., Ring B., Ringwald M., Rodriguez I., Sakamoto N., Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch KF., Suzuki H., Toyo-oka K., Wang K.H., Weitz C., Whittaker C., Wilming L., Wynshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohtsuki S., Hayashizaki Y.;	i R. Tomita M. Wagner L. Washio i R. Tomita M. Wagner L. Washio Aono H. Baldarelli R. Barsh G. N., Carninci P., de Bonaldo M.F., her C. Fujita M., Gariboldi M., M., Hume D.A., Kamiya M., Lee N.H.	Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S., Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I., Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R., Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T., Fleischmann W., Gaasterland T., Gissi C., King B., Kochiwa H., Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Ouackenbush J., Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Ouackenbush J.,	NCB1 "FAXID=10090; [1] [1] [SEQUENCE FROM N.A. STRAIN=C57BL/6J; TISSUE=Pancreas; MEDLINE=2108560; PubMed=11217851; MEDLINE=2108560; PubMed=11217851; Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.	1810020E01Rik protein (RIKEN cDNI 1810020E01RIK. Mus musculus (Mouse). Eukaryota; Metazoa; Chordata; Cri Mammalia; Eutheria; Rodentia; Sc:	Q9D8Y1; 01-JUN-2001 (TrEMBLrel. 17, Created) 01-JUN-2001 (TrEMBLrel. 17, Last sequence update) 01-JUN-2002 (TrEMBLrel. 21, Last annotation update)	SUL SUL

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Q9C7H2;
01-JUN-2001
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Proc. Matl. Acad. Sci. U.S.A. 100:1990-1995(2003).

EMBL; Aly35258; CAD64544.1;
GO; GO:0005524; F:AIP binding; IEA.
GO; GO:000874; F:Ligase activity; IEA.
GO; GO:0008764; F:IUDP-N-acetylmuramoylalanine-D-glutamate lig.
GO; GO:0008764; F:IUDP-N-acetylmuramoylalanine-D-glutamate lig.
GO; GO:0009058; P:biosynthesis; IEA.
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Submitted (FEB-2002) to the EMBL/GenBank/DDBJ databases EMBL; AK007559; BAB25107.1; -.
EMBL; BC023171; AAH23171.1; -.
MGD; MGI:1913521; 1810020E01Rik.
SEQUENCE 196 AA; 21539 MW; 994DF5E2251C5FEB CRC64;
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01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
01-CCT-2003 (TrEMBLrel. 25, Last annotation update)
UDP-N-acetylmuramoylalanine--D-glutamate ligase (EC
Arabidopsis thaliana (Mouse-ear cress).
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta.
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosio
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SEQUENCE KKUR. .....

STRAIN=CV. Columbia;

RX MEDLINE=CJU16719; PubMed=11130712;

RX Mentine C. Alonso J. Altafi H., Araujo R., Bowman C.L., Brooks S.Y.,

RA Mhite O., Alonso J., Altafi H., Araujo R., Bowman C.L., Brooks S.Y.,

RA Buehler E., Chan A., Chao Q., Chen H., Cheuk R.F., Chin C.W.,

RA Chung M.K., Conn L., Conway A.B., Conway A.R., Creasy T.H., Dewar K.,

RA Chung M.K., Conn L., Conway A.B., Conway A.R., Creasy T.H., Dewar K.,

RA Chung M.K., Conn L., Conway A.B., Conway A.R., Creasy T.H., Dewar K.,

RA Chung M.K., Conn L., Conway A.B., Conway A.R., Creasy T.H., Dewar K.,

RA Chung M.K., Conn L., Conway A.B., Conway A.R., Creasy T.H., Dewar K.,

RA Gill J.E., Goldsmith A.D., Haas B., Hansen N.F., Hughes B., Huizar L.,

RA Hunter J.L., Jenkins J., Johnson-Hopson C., Khan S., Khaykin E.,

RA Kim C.J., Koo H.L., Kremenetskaia I., Kurtz D.B., Kwan A., Lam B.,

RA Lin X., Liu S.X., Liu Z.A., Luros J.S., Maiti R., Marziali A.,

RA Milltscher J., Miranda M., Nguyen M., Nierman W.C., Osborne B.I.,

RA Sakano H., Salzerg S.L., Schwartz J.R., Shinn P., Southwick A.M.,

RA Sun H., Tallon L.J., Tambunga G., Toriumi M.J., Town C.D.,

RA Wu D., Yu G., Fraser C.M., Vaysberg M., Vysotskaia V.S., Walker M.,

"Town c.c., Van Aken S., Vaysberg M., Vysotskaia V.S., Walker M.,

"Town c.c., Alker M., Venter J.C., Davis R.W.;

Wu D., Yu G., Fraser C.M., Venter J.C., Davis R.W.;
                                                                                                                     Query Match
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Matches 6
                                                                                                                                                        InterPro; IPR006638; Elp3.
InterPro; IPR006466; MiaB like B.
InterPro; IPR007197; Radical_SAM.
InterPro; IPR007197; TRAM.
InterPro; IPR0072792; TRAM.
InterPro; IPR005839; UPF0004.
Pfam; PF04055; Radical_SAM; 1.
Pfam; PF04918; TRAM; 1.
Pfam; PF04918; TRAM; 1.
Pfam; PF00919; UPF0004; 1.
SMART; SM00729; Elp3; 1.
TIGRPAMS; TIGR010578; MiaB-like-B; 1.
TIGRPAMS; TIGR00089; TIGR00089; 1.
PROSITE; PS01278; UPF0004; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Cheuk R., Chen H., Kim C.J., Shinn P., Bowser L., Carnin Chan M.M., Chang C.H., Dale J.M., Hayashizaki Y., Hsuan Ishida J., Jones T., Kamiya A., Karlin-Neumann G., Kawai Lee J.M., Lin J., Miranda M., Narusaka M., Nguyen M., On Palm C.J., Quach H.L., Sakurai T., Satou M., Seki M., So Tang C.C., Toriumi M., Wong C., Wu H.C., Yamada K., Yu G Shinozaki K., Davis R.W., Theologis A., Ecker J.R.; "Arabidopsis ORF clones."; "Arabidopsis ORF clones."; "Arabidopsis ORF clones.";
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"Arabidopsis cDNA clones.";
Submitted (MAR-2001) to the EMBL/GenBank/DDBJ databases.
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NCBI_TaxID=3702; .
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PIR; B96744; B96744.
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EMBL; AF367274; AAK56263.1; -.
EMBL; BT002712; AAO11628.1; -.
                                                                                                                   Hypothetical
SEQUENCE 6
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1., Hayashizaki Y., Hsuan V.W.,
1., Karlin-Neumann G., Kawai J., Lam B.,
Narusaka M., Nguyen M., Onodera C.S.,
Narusaka M., Seki M., Southwick A.,
Satou M., Seki M., Southwick A.,
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                                             Mismatches
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o. 17;
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PRINTS; PRO0390; PHPHLIPASEC.

DR ProDom; PD001202; PI PLC_Y; 1.

DR SMART; SM00239; C2; I.

DR SMART; SM00233; PH; 1.

DR SMART; SM00148; PLCXc; 1.

DR SMART; SM00149; PLCYc; 1.

DR SMART; SM00149; PLCYc; 1.

PROSITE; PS50004; C2 DOMAIN 2; 1.

R PROSITE; PS50006; PIPLC X DOMAIN; 1.

R PROSITE; PS50008; PIPLC X DOMAIN; 1.

R PROSITE; PS50008; PIPLC X DOMAIN; 1.

SEQUENCE 1068 AA: 1777
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REMBL; AF025462; AAN72423.1; -.

ROMORDED; K10F12.3b; CE31037.

ROGO:00004435; F:phosphoinositide phospholipase C activity; IEA

ROG: GO:00004435; F:phosphoinositide phospholipase C activity; IEA

ROG: GO:0006629; P:lipid metabolism; IBA.

ROG: GO:0006629; P:lipid metabolism; IEA.

RINTERPO; IPR001093; C2: GALB.

RINTERPO; IPR001192; PI PLC.

R InterPro; IPR001193; PI PLC.
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Best Local S
Matches 6
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01-OCT-2003 (TEMBLIFE: 25,
Hypothetical protein K10F12.
K10F12.3.
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01-MAR-2003
01-MAR-2003
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STRAIN-Bristol N2;
Wohldmann P., Beck C.;
"The sequence of C. elegans
Submitted (SEP-1997) to the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Genome sequence of the nematode C. elegans: a platform for investigating biology. The C. elegans Sequencing Consortium."; Science 282:2012-2018(1998).
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STRAIN=Bristol N2;
MEDLINE=99069613; PubMed=9851916;
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Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidea;
Rhabditidae; Peloderinae; Caenorhabditis.
Q8IA75
Q8IA75;
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Pfam; PF00388; PI-PLC-X; 1.
Pfam; PF00387; PI-PLC-Y; 1.
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Submitted (DEC-2002)
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NCBI_TaxID=6239;
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.larity 100.0%;
Conservative
                           PRELIMINARY;
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Last annotation update)
.3b.
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EMBL/GenBank/DDBJ databases.
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EMBL; AF025462; AAN724221; -.

GO; GO:0004435; F:phosphoinositide |
GO; GO:0007442; F:intracellular sig|
GO; GO:0006629; P:intracellular sig|
GO; GO:0006629; P:intid metabolism;
InterPro; IPR000088; C2.

InterPro; IPR0018973; C2.

InterPro; IPR00189; PI_PLC.

InterPro; IPR001192; PI_PLC_Xdom.

InterPro; IPR001191; PI_PLC_Xdom.

InterPro; IPR001111; PI_PLC_X.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pfam; PF00388; PI-PLC-X; 1.

Pfam; PF00387; PI-PLC-Y; 1.

PRINTS; PR00390; PHPHLIPASEC.

PRODOM; PD001202; PI PLC_Y; 1.

SMART; SM00239; C2; 1.

SMART; SM00133; PH; 1.

SMART; SM00149; PLCXc; 1.

SMART; SM00149; PLCXc; 1.

PROSITE; PS50004; C2 DOMAIN; 1.

PROSITE; PS50004; C2 DOMAIN; 1.

PROSITE; PS500004; DPLC_Y_DOMAIN; 1.

PROSITE; PS500004; DPLC_Y_DOMAIN; 1.

SEQUENCE 1075 AA; 121112 MW; 610
                                                       Q9J5A0
Q9J5A0;
01-OCT-2000 |
01-OCT-2000 |
01-JUN-2003 |
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[3]
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01-MAR-2003 (TYEMBLIE). 23, Last sequence up
01-CCT-2003 (TYEMBLIE). 25, Last annotation
Hypothetical protein K10F12.3a.
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STRAIN=Bristol N2;
MEDLINE=99069613; PubMed=9851916;
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Submitted (I
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Wohldmann P., Beck C.;
"The sequence of C. elegans
Submitted (SEP-1997) to the
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Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidea;
Rhabditidae; Peloderinae; Caenorhabditis.
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STRAIN-Bristol N2;
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                                   FPV122
     Fowlpox virus (FPV)
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intracellular signaling cascade; IEA.
lipid metabolism; IEA.
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elegans Sequencing Consortium.";
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Krisch H.
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Tetart F.
Krisch H.
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J. Virol.
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Desplats C., Dez C., Tetart F., Eleaume H., F
"Snapshot of the genome of the pseudo-T-even
J. Bacteriol. 184:2789-2804(2002).
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MEDLINE=20193820; PubMed=10729156;

Afonso C.L., Tulman E.R., Lu Z., Z

"The genome of fowlpox virus.";

"I, Virol. 74:3815-3831(2000).
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Avipoxvirus.
NCBI_TaxID=10261;
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tred (OCT-1999) to the EMBL/GenBank/DDBJ databases
AF198100; AAF44466.1; -.
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PF04395; Poxvirus_B22R; 1.
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n bacteriophage
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SEQUENCE FROM N.F.
Thao L., Tetart
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           Pfam; PFO
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STRAIN-Bris-768;

By P.L., Darby J.M., Mayrhofer G.;

"Three homologous surface antigen genes identigense homologous surface waltiple sequences chain reaction products.";

Submitted (JUN-1993) to the EMBL/GenBank/DDBJ
                                                                                                                                                                                                        Giardia lamblia (Giardia Eukaryota; Diplomonadida; MCBI_TaxID=5741;
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Krisch H.
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S C., Krisch H
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                                                                                                         SEQUENCE FROM N.A.

Ceraul S.M., Sonenshine D.E., Hynes W.L.;

Ceraul S.M., Sonenshine D.E., Hynes W.L.;

CDNA sequence of the defensin (varisin A1) from hard tick Dermacentor variabilis.;

Submitted (NOV-2002) to the EMBL/GenBank/DDBJ dat EMBL; AY181027; AA024323.1; -.

GO; GO:000595; C:extracellular; IDA.

GO; GO:0005951; P:antibacterial peptide activity GO; GO:0006961; P:antibacterial humoral response
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Q86QI5;
01-JUN-2003
01-JUN-2003
01-OCT-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             of uropathogenic Escherichia coli.";
Proc. Natl. Acad. Sci. U.S.A. 99:17020-17024(2002)
EMBL; AE016767; AAN82578.1; -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STRAIN=O6:H1 / CFT073 / ATCC 700928;

MEDLINE=22388234; PubMed=12471157;

Welch R.A., Burland V., Plunkett G. III, Redford P., Roesch P.,

Rasko D., Buckles E.L., Liou S.-T., Boutin A., Hackett J., Stroud

Mayhew G.F., Rose D.J., Zhou S., Schwartz D.C., Perna N.T.,

Mobley H.L.T., Donnenberg M.S., Blattner F.R.;

"Extensive mosaic structure revealed by the complete genome sequen
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SEQUENCE FROM N.A.
CFT073
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NCBI_TaxID=217992;
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Eukaryota; Metazoa; Arthropoda; Chelicerata; Arachnida; Acari;
Parasitiformes; Ixodida; Ixodidae; Dermacentor.
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InterPro; IPR001542; Defensin_anpod.
Pfam; Pr01097; Arthro defensin; 1.
PR051TE; PS00425; ARTHROPOD DEFENSINS; 1.
SEQUENCE 74 AA; 8040 MW; A5A29AF4E70DD0BB
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01-OCT-2003
                                                                                                                    Tanaka Y., Pfeiffer R., Yeo A.E., Mizokami M., Edlin B.R., O'Brien T.R., Alter H.J., Shih J.W.; "PCR-probe capture hybridization assay and statistical mixture modeling for SEN virus prevalence estimation."; Submitted (DEC-2001) to the EMBL/GenBank/DDBJ databases. EMBL; AB075276; BAB97346.1; ---
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PROSITE; PS00425; ARTHROPOD DEFENSINS; 1.
SEQUENCE 74 AA; 8271 MW; 38931B022293
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Eukaryota; Metazoa; Arthropoda; Chelicerata;
Parasitiformes; Ixodida; Ixodidae; Boophilus
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NCBI_TaxID=136966;
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                                                                                                                                                                                                                SEQUENCE FROM N.A.
                                                       SEQUENCE
                                                                                       Pro; IPR004219; TTvir
PF02956; TT_ORF1; 1.
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Q8JX67;
01-OCT-2002 (TrEMBLrel. 2
01-OCT-2002 (TrEMBLrel. 2
01-MAR-2003 (TrEMBLrel. 2
                                                                     Pfam; PFO
NON TER
SEQUENCE
                                                                                                                            Nicolas C., Cervantes E.;

"Cloning and nucleotide sequence of CasAMs (X85252), a cDNA encoding sam synthetase from germinated chickpea seeds.";

Submitted (MAR-1955) to the EMBL/GenBank/DDBJ databases.

EMBL; X85252; CAAS9508.1; -.

PIR; S53116; S53116.

SSP; P04384; 1MXB.

GO; GO:0005524; F:ATP binding; IEA.

GO; GO:0005524; F:ATP binding; IEA.

GO; GO:0006730; F:one-carbon compound metabolism; IEA.

InterPro; IPR002133; S-AdoMet_synt; 1.

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01-NOV-1996 (TrEMBLrel. 01,
01-NOV-1996 (TrEMBLrel. 01,
01-OCT-2003 (TrEMBLrel. 25,
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SEQUENCE
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Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

Spermatophyta; Magnoliophyta; endicotyledons; core eudicots; rosids;

eurosids I; Fabales; Fabaceae; Papilionoideae; Cicereae; Cicer.
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Submitted (DEC-2001) to the EMBL/GenBank/DDBJ databases.
EMBL; AB075275; BAB97345.1;
InterPro; IPR004219; TTvirus_Unk.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SAM-synthetase (Fragment).
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SEN virus.
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O'Brien T.R., Alter H.J., Shih J.W.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Viruses; ssDNA viruses;
NCBI_TaxID=136966;
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                                                                                                                                          the RIKEN Genome Exploration Research Group Phase I & II Team; "Analysis of the mouse transcriptome based on functional annotation 60,770 full-length cDNAs.";
Nature 420:563-573 (2002).
EMBL; AKO87122; EAC39809.1; -
MGD; MGI:2441849; Lpp.
MGD:2441849; Lpp.
AA8E59DAFD8170B2 CRC64;
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STRAIN=C575BL/6J; TISSUE=Lung;
MEDLINE=22354683; PubMed=12466851;
The FANTOM Consortium,
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Mammalia; Eutheria;
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                                                                       8 ETCTC 12
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           11,
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Rodentia;
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100.0%; Pred. No. 64.
cive 0; Mismatches
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Maximum DB seq length: 200000000
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Perfect score:
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gn2_6/ptodata/1/pubpaa/US090_PUBCOMB.pep:*
gn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*
gn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*
gn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*
gn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep:*
gn2_6/ptodata/1/pubpaa/US100_NEW_PUB.pep:*
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Sequence 10,
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equence 79,	ence 30,	equence 78,	equence 29,	equence 77,	ence 28,	equence 76,	equence 27,	equence 75,	ence 26,	equence 74,	ence 25, App	equence 90,	quence 73, App	nce 24, App	quence 72, App	quence 23, App	equence 71, App	equence 22,	equence 70,	equence 21,	equence 69,	equence 20,	Sequence 68, Appl	equence 19,	equence 67,	equence 18, App	equence 66, App	equence 17, App	Sequence 65, Appl

## ALIGNMENTS

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RESULT 2

US-10-291-360-5

; Sequence 5, Application US/10291360

; Publication No. US20030119744A1

; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                 ; ORGANISM: Artificial Sequence; FEATURE: OTHER INFORMATION: PCK3145 (polypeptide 31-45) US-09-977-406A-5
                                                                                                                                                                                                                                             Query Match
Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: PatentIn version 3.1
SEQ ID NO 5
LENGTH: 15
TYPE: PRT
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: CA 3,321,256
PRIOR PLING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR FILING DATE: 2001-08-20 NUMBER OF SEQ ID NOS: 92
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15; Conserv
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                                                                                                                                                                                                                                           100.0%; Score 15; DB 10; llarity 100.0%; Pred. No. 1.4e-10; Conservative 0; Mismatches 0;
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RESULT 4
US-09-977-406A-59
y Sequence 59, Application US/09977406A
publication No. US20030170220A1
GENERAL INFORMATION:
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US-09-977-406A-10
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Best Local S
Matches 15
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APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SOFTWARE: PatentIn version 3.1 SEQ ID NO 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 10, Appropriate Publication No.
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                                                                               APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
NUMBER OF SEQ ID NOS: 92
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               PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
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TITLE OF INVENTION: PSP-94: Use for Treatment of Hypercalcemia and Bone metastasis
FILE REFERENCE: 06508-051-US-02
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FILING DATE: 2001-08-20
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No. US20030170220A1
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Pred. No. 1.4e-10;
; Mismatches 0;
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Pred. No. 1.4e-10;
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US-09-977-406A-11
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                                                       SOFTWARE: Pa
                                                                                                                                                                                                                                                                              Sequence 60, Application US/09977406A
Publication No. US20030170220A1
GENERAL INFORMATION:
APPLICANT: PROCYON BIOPHARMA INC.
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Best Local Similarity
Matches 15; Conserv
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Matches 15; Conser
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SOFTWARE: Patentin version 3.1
SEQ ID NO 59
LENGTH: 16
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PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
NUMBER OF SEQ ID NOS: 92
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILE REFERENCE: 06508-030-US-03
CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
                                                                                                                                                           PRIOR APPLICATION NUMBER: CA 2,321,256 PRIOR FILING DATE: 2000-10-16
                                                                                                                                                                                                 FILE REFERENCE: 06508-030-US-03
CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
                                                                                                                PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM: Artificial Sequence FEATURE:
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ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURE:
                                                                                                                                                                                                                                                             ITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
                                                                              PatentIn version 3.1
                                                                                                 SEQ ID NOS: 92
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Pred. No. 1.4e-10;
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; OTHER INFORMATION: Polypeptide derived from rHuPSP94 sequence (polypeptide
US-09-977-406A-61
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US-09-977-406A-12
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Publication No. US20030170220A1
GENERAL INFORMATION:
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SOFTWARE: PatentIn version 3.1
SEQ ID NO 61
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TITILE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
CURRENT FILING TOMOBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
                                      Best Local Similarity
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PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
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ORGANISM: Artificial Sequence
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US-09-977-406A-62
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US-09-977-406A-13
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SEQ ID NO 13
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Best Local Similarity
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Publication No.
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Publication No.
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PRIOR FILING DATE: 2000-10-16
PRIOR PPLICATION NUMBER: CA 2,355,334
PRIOR PPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
NUMBER OF OTTO
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CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
NUMBER OF SEQ ID NOS: 92
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Pred. No. 1.7e-10;
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; OTHER INFORMATION: Polypeptide derived from rHuPSP94 sequence US-09-977-406A-62
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APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
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Best Local Similarity
Matches 15; Conserv
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                                                       GENERAL INFORMATION:
APPLICANT: PROCYON BIOPHARMA INC.
                                                                                        Sequence 15, Application US/09977406A Publication No. US20030170220A1
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                                  TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
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TILE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING
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APPLICATION NUMBER: US/09/977,406P
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LENGTH: 21
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CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
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NUMBER OF SEQ ID NOS: 92
SOFTWARE: PatentIn version 3.1
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PRIOR FILING DATE: 2000-10-16
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PRIOR FILING DATE: 2001-08-20
NUMBER OF SEQ ID NOS: 92
                                                                                             TITLE OF INVENTION: PHARMACEUTICAL PREFARATIONS AND METHODS FILE REFERENCE: 06508-030-US-03 CURRENT APPLICATION NUMBER: US/09/977,406A CURRENT FILING DATE: 2001-10-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
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Search completed: March 11, 2004, 18:25:48 Job time :  $14.9194 \ \text{secs}$ ; SEQ ID NO 16
[LENGTH: 22
; TYPE: PRT
[ORGANISM: Artificial Sequence]
; PEATURE:
FEATURE: INFORMATION: Polypeptide derived from rHuPSP94 sequence (polypeptide analog)
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### ALIGNMENTS

QY 14 STRKCMDLKGNKHPINSEWQTDNCETCTC 42    : :       :: :	Query Match 29.5%; Score 79; DB 4; Length 221; Best Local Similarity 41.4%; Pred. No. 0.011; Matches 12; Conservative 5; Mismatches 12; Indels 0; Gaps 0;	Or O96G75; DT O1-DEC-2001 (TrEMBLrel. 19, Created) DT O1-DEC-2001 (TrEMBLrel. 19, Last sequence update) DT O1-DEC-2003 (TrEMBLrel. 25, Last annotation update) DT O1-OCT-2003 (TrEMBLrel. 25, Last annotation update) DE Hypothetical protein (Fragment). OS Homo sapiens (Human). OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. OX NCBI_TaxID=9606; RN [1] TaxID=9606; RN [2] TaxID=9606; RN [3] TaxID=9606; RN [3] TaxID=9606; RN SIQUENCE FROM N.A. FISSUE=Ovary; RA Strausberg R.; Strausberg R.; Strausberg R.; Strausberg R.; Submitted (JUN-2001) to the EMBL/GenBank/DDBJ databases. DR GO; GO:0004601; F:peroxidase activity; IEA. GO; GO:0004601; F:peroxidase activity; IEA. GO; GO:0004601; F:peroxidase activity; IEA. GO; GO:0006979; P:response to oxidative stress; IEA. DR GO; GO:0006979; P:response to oxidative stress; IEA. DR InterPro; IPR002007; Anim peroxidase. DR InterPro; IPR002007; VMF C. DR Ffam; PF03098; An_peroxidase; 1. DR Ffam; PF03098; An_peroxidase; 1. DR SMART; SM00214; VWC; 1. DR SMART; SM00214; VWC; 1. DR SMART; SM00214; VWC; 1. SQ SEQUENCE 221 AA; 24819 MW; 253E54F76B126E8E CRC64;	RESULT 1 Q96GF5 ID Q96GF5 PRELIMINARY; PRT; 221 AA.

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EMBL; D86983; BAA13219.1; -.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TISSUE=Bone marrow; MEDLINE=97191544; PubMed=9039502; MEDLINE=97191544; PubMed=9039502; Nagase T., Seki N., Ishikawa K., Ohira M., Kawarabayasi Y. Tanaka A., Kotani H., Miyajima N., Nomura N.; Tanaka A., Kotani H., Miyajima N., Nomura N.; Tranaka A., Kotani H., Miyajima N., Nomura N.; Tranaka A., Kotani H., Miyajima N., Nomura N.; Tranaka A., Kotani H., Miyajima N., Nomura N.; Tanaka A., Kotani H., Miyajima N., Nomura N., Kawarabayasi Y. Tanaka N., Nomura N.
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-FEB-1997 (TrEMBLrel. 02, Crea
01-FEB-1997 (TrEMBLrel. 02, Last
01-CCT-2003 (TrEMBLrel. 25, Last
01-CCT-203 (TrEMBLrel. 25, Last
MYELOBLAST KIAA0230 (Fragment).
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                                 Immunoglobulin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pfam;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=95048383; PubMed=7959781; Weiler S.R., Taylor S.M., Deans R.J.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Q92626;
                                                                                                                                                                                                                                                                                                                                                               Pfam; Prooves; vnc, ______PRINTS; PRO0457; ANPEROXIDASE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   InterPro; IPR002007; Anim peroxidase. InterPro; IPR007110; Ig-like. InterPro; IPR003598; Ig_c2. InterPro; IPR001611; LRR. INTERPRO; IPR001611; LRR. Cterm.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pfam; PF03098;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FISSUE=Melanoma,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Irent J.M.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pfam;
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                                                                                                                                                                                                                                                                                                                                                                                                                       PF01463;
PF00093;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ); IPR002016; Peroxidase.
); IPR001007; VWF C.
); 3098; An --
                                                                                   PS50292; PEROXIDASE
PS01208; VWFC 1; 1.
PS50184; VWFC 2; 1.
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      1496
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(TremBLrel. 02, Last sequence update)
(TremBLrel. 25, Last annotation update)
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                                                                                                                                                                                                                                                                                                                                                                                                                                               ig; 4.
LRR; 5.
LRRCT; 1.
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   AA;
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                                                                                                                                                         PEROXIDASE_3;
      167209
          ¥,
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      E9B9A7069BF1ABFF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            in situ hybridization.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1496 AA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              antagonist
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FIGURE SERVICE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 밁
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Best Local
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Best Local
Okazaki N., Kikuno R., Ohara R., Inamoto S., Alzawa H., Yuasa S.,
Nakajima D., Nagase T., Ohara O., Koga H.;
"Prediction of the coding sequences of mouse homologues of KIAA gene:
                                                                                                                                                                                                                                                                                 01-JUN-2003 (TrEMBLrel. 24,
01-JUN-2003 (TrEMBLrel. 24,
01-OCT-2003 (TrEMBLrel. 25,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EMBL; BC0048828; AAH49828.1; -.
EMBL; BC049858; AAH49858.1; -.
GO; GO:0004601; F:peroxidase activity; :
GO; GO:0006979; P:response to oxidative
                                                           TISSUE=Brain;
MEDLINE=22579291; PubMed=12693553;
                                                                                                                                                                                                                                                                                                                              01-JUN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Hypothetical SEQUENCE 74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PROSITE; PS50292; PEROXIDASE_3; 1.
PROSITE; PS01208; VWFC_1; 1.
PROSITE; PS50184; VWFC_2; 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          InterPro; IPR002007; Anim peroxidase.
InterPro; IPR002016; Peroxidase.
InterPro; IPR001007; VWF C.
Pfam; PF03098; An_peroxidase; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Strausberg R.; submitted (MAR-2003) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similar to hypothetical Mus musculus (Mouse).
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01-OCT-2003
                                                                                                          SEQUENCE FROM N.A.
                                                                                                                                                 NCBI_TaxID=10090;
                                                                                                                                                                        Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                   Mus musculus (Mouse).
                                                                                                                                                                                                                                        MKIAA0230
                                                                                                                                                                                                                                                            MKIAA0230 protein (Fragment).
                                                                                                                                                                                                                                                                                                                                                                       090060
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-JUN-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PF00093; vwc;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                676 STTECVDDSGESHGGNTKWKKDPCTVCEC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      al protein.
744 AA; 8
                                                                                                                                                                                                                                                                                                                                                                       PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
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                                                                                                                                                                          Chordata;
Rodentia;
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Rodentia;
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25,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 77;
Pred. No.
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Pred. No.
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Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                          Craniata; Vertebrata; Euteleostomi; Sciurognathi; Muridae; Murinae; Mus
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0.077;
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0.087;
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                                               Aizawa H.,
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                                                                                Beck D.L., Tanyuksel M., Mackey A.J., Pearson Haque R., Petri W.A. Jr.;
Haque R., Petri W.A. Jr.;
"Entamoeba histolytica: cloning and sequence a gal/GalMAc lectin in clinical isolates.";
Submitted (ARR-2002) to the EMBL/GenBank/DDBJ EMBL; AF501279; AAM22200.1;
GO; GO:0005529; F:sugar binding; IEA.
GO; GO:0007157; P:heterophilic cell adhesion;
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PROSITE; PS50184; VWFC_2; 1.
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InterPro; IPR003599;
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Purdy J.E., Mann B.J., Shugart E.C., Petri W.;
"Analysis of the gene family encoding the Entr
galactose-specific adhesin 170-kDa subunit.";
Mol. Biochem. Parasitol. 62:53-50/1003
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Purdy J.E., Mann B.J., Petri W.A.Jr.;

Purdy J.E., Mann B.J., Petri W.A.Jr.;

"The nucleotide sequence of the 5' flanking, entire sign

and part of the 5' coding region of the galactose bindin

(hgll) of Entamoeba histolytica.";

Submitted (OCT-1993) to the EMBL/GenBank/DDBJ databases.
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Mann B.J., Torian B.E., Vedvick T.
"Sequence of a cysteine-rich galac
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>S00022; EGF_l; 1.
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1292 AA;
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galactose-specific lec
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TW; E3123F4C7B6FDB98 CRC64;
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   Query Match
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Matches 13; Conservative
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Pfam; PF00094; vwd; 1.

Pfam; PF00094; vwd; 1.

SMART; SM00210; TSPN; 1.

SMART; SM00214; vWC; 27.

SMART; SM00216; VWD; 1.

SMART; SM00216; VWD; 1.

PR0SITE; PS01186; EGF 2; 1.

PR0SITE; PS01208; VWFC 1; 20.

PROSITE; PS01208; VWFC 1; 1.

PROSITE; PS01208; VWFC 1; 1.

PROSITE; PS01208; VWFC 1; 1.

PROSITE; PS01208; VWFC 1; 19.

SEQUENCE 2327 AA; 255800 MW;
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SEQUENCE
                                                                                                                                        "Entamoeba histolytica: cloning and sequence gal/GalNAc lectin in clinical isolates."; Submitted (APR-2002) to the EMBL/GenBank/DDBJ EMBL; AF501280; AAM22201.1; GO; GO:0005529; F:sugar binding; IEA. GO; GO:0007157; P:heterophilic cell adhesion;
                                                                                                                                                                                                                                                                                                                            Entamoeba histolytica.
Eukaryota; Entamoebidae;
NCBI_TaxID=5759;
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01-OCT-2002 (TrEMBLrel.
01-OCT-2003 (TrEMBLrel.
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Haque R., Petri W.A. Jr.,
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MEDLINE=20266358; PubMed=10779551;
Matsui M., Mizuseki K., Nakatani J., Nakanishi S., Sasai Y
Matsui M., Mizuseki K., Nakatani J., Nakanishi S., Sasai Y
"Xenopus Kielin: A dorsalizing factor containing multiple
repeats secreted from the embryonic midline.";
Proc. Natl. Acad. Sci. U.S.A. 97:5291-5296(2000).
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InterPro; IPR002919; TIL Cysrich.
InterPro; IPR003129; TSPN.
InterPro; IPR001007; VWF C.
InterPro; IPR001046; VWF_D.
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22, Last sequence update)
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subunit region E (Fragment)
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OBAWW5 PRELIMINARY;
OBAWW5;
O1-MAR-2003 (TIEMBLIEL 2
01-MAR-2003 (TIEMBLIEL 2
01-OCT-2003 (TIEMBLIEL 2
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01-MAR-2003 (TrEMBLrel. 23,
01-MAR-2003 (TrEMBLrel. 23,
01-OCT-2003 (TrEMBLrel. 25,
Cysteine-rich motorneuron 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EMBL; U77914; AAC50909.1;
HSSP; P00743; ICCF.
GO; GO:0005509; F:calcium
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TISSUB-Umbhlical vein;
MEDLINE-97115768; PubMed-8955070;
7:mrin A.B., Pepper M.S., McMahon
                                                                                                                                                                                                                                                                                                                                                                                                PRINTS; PRO0010; EGFBLOOD.
SMART; SM00179; EGF_CA; 2.
SMART; SM00214; VWC; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                          InterPro; IPR000152; Asx_hydroxyl_S.
InterPro; IPR000742; EGF_2.
InterPro; IPR001881; EGF_Ca.
InterPro; IPR001438; EGF_II.
InterPro; IPR006209; EGF_like.
InterPro; IPR001007; VWF_C.
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TISSUS-Umbilical vein;
TISSUS-Umbilical vein;
MEDLINE-95211842; PubMed=7697721;
Lindsell C.E., Shawber C.J., Boulter J., We
"Jagged: a mammalian ligand that activates
Cell 80:909-917(1995).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "An antisense oligonuclectide to the notch ligfibroblast growth factor-induced angiogenesis J. Biol. Chem. 271:32499-32502(1996).
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Mammalia; Eutheria;
                                                                                                                                                                                                                    il Similarity
13; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                              PF00008; EGF;
                                                                                                                                                         PS00010; ASX HYDROXYL;
PS00022; EGF_1; 3.
PS01186; EGF_2; 2.
PS01187; EGF_CA; 2.
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                                                                                                                                                                                                                                                                                      263 AA;
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Primates;
                                                                                                                                                                                                                                                                                      28405 MW;
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03, Last sequence up
25, Last annotation
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Pred. No.
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vitro.";
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RESULT
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Matches 10
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Pfam; PF0093; vwc; 6.
SMART; SM00121; IB; 1.
SMART; SM00214; VWC; 6.
SMART; SM00215; VWC out; 3.
PROSITE; PS01208; VWFC_1; 6.
PROSITE; PS01208; VWFC_2; 6.
SEQUENCE 1048 AA; 114942 MW;
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01-NOV-1996
01-NOV-1996
01-OCT-2003
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"In ovo electroporation of Criml i:
                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A.
STRAIN=Bristol N2;
MEDLINE=99069613; PubMed=9851916;
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EMBL; AY098584;
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Waterston R.;
"Direct Submission.";
Submitted (AUG-2001) to tl
EMBL; U40420; AAA81430.1;
                                                                           SEQUENCE FROM N.A.
STRAIN=Bristol N2;
                                                                                                                                                                                                                                                                                                                                              None;
                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Metazoa; Nemato
Rhabditidae; Peloderinae;
NCBI — TaxID=6239;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Caenorhabditis elegans.
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                                                                                                                                                                                                                                                                               investigating biology. The C
Science 282:2012-2018(1998).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              F40F4.6
                                                                                                                                                                                                                 SEQUENCE FROM N.A.
STRAIN=Bristol N2;
                                                                                                                                                                                             Wilson R.;
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GO:0005520;
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ota; Metazoa; Chordata;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   10;
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                                                                                                                                                    ence of C. (NOV-1995)
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98584; AAM28339.1;
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(TrEMBLrel.)
(TrEMBLrel.)
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                                                                                                                                                 elegans to the
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                  to the EMBL/GenBank/DDBJ databases
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                                                                                                                                                                                                                                                                                                   nematode C. elegans: a platform for The C. elegans Sequencing Consortium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Caenorhabditis.
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Pred. No. 11;
5; Mismatches
                                                                                                                                                    cosmid F40F4.";
EMBL/GenBank/DDBJ
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, Little M.;
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                                                                                                                                                                                                                                                                                                        Consortium.";
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RESULT 12
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Matches 12
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SMART; SM00181; EGF; 3.

SMART; SM00181; EGF; 3.

SMART; SM00504; MD; 2.

SMART; SM00327; VWA; 1.

PROSITE; PS00022; EGF 1; 6.

PROSITE; PS01186; EGF 2; 3.

PROSITE; PS01186; EGF 2; 3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    QBCIZ8;
QBCIZ8;
01-MAR-2003;
01-OCT-2003;
01-OCT-2003;
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Q9TTS5;
01-MAY-2000
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Pfam; PF00059; lectin_c; 1.
Pfam; PF00092; vwa; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                       Lenting P.J. Westein E., de murine von Willebrand Factc Submitted (JUL-2003) to the EMBL; AF539800; AAN07781.2; SEQUENCE 2813 AA; 309266
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                                                           SCO-spondin
SCO-spondin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mus musculus (Mouse)
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    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pe
                                                                                                   01-JUN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STRAIN=BALB/c;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          InterPro; IPR006582;
InterPro; IPR002035;
                                        Bos taurus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NCBI_TaxID=10090;
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                                                                                                                                                                                                                                                                                  2419
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   l Similarity 38.
                                                                                                                                                                                                                                                                                                                                                             l Similarity
12; Conserv
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                                                                                                                                                                                                                                                                                  GCTTTTCLPDKVCVHRGTVYPVGQFWE-EGCDTCTC
                                                                                                                                                                                                                                                                                                                          GDSTRKCMDLK-----
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2214 AA;
                                            (Bovine).
                                                                                                   (TrEMBLrel. (TrEMBLrel. (TrEMBLrel.
                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRELIMINARY;
                                                                                  (Fragment).
                                                                                                                                                                                 PRELIMINARY;
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214 AA; 243435 MW; BOB38
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; CE04536.
~~ar binding;
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nd Factor.
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13,
24,
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Last
                                                                                                     Created)
Last sequence update)
Last annotation update)
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Pred. No. 24;
3; Mismatches
                                                                                                                                                                                                                                                                                                                                                                Score 62; DB Pred. No. 37; 7; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Groot P.G.,
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Sciurognathi; Muridae; Murinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      sequence update) annotation updat
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                                                                                                                                                                                                                                                                                  2453
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                                                                                                                                                                                                                                                                                                                                                                                                     Length 2813;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C. V.;
        ca; Euteleostomi;
Pecora; Bovoidea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 2214;
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RESULT 14
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  PICTOR REPORTED TO SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SER
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Best Local S
Matches 16
                                                               SMART; SN
PROSITE;
PROSITE;
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NON_TER
NON_TER
                   Signal.
                                                                                  Pfam; PF02822; Antistasin; 4.
Pfam; PF00093; vwc; 6.
SMART; SM00121; IB; 1.
SMART; SM000214; VWC; 6.
PROSITE; PS01208; VWFC_1; 6.
                                                                                                                                                                                                                                                                                                                                                                                    and organogenesis.",
Mech. Dev. 90:181-133(2000).
EMBL; AF168680; AAP34410.1; -.
HSSP; P15358; 18KZ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDLINE=20108580; PubMed=10642437;
Kolle G., Georgas1 K., Holmes G.P., Little M.H., Yamada T.;
"CRIM1, a novel gene encoding a cysteine-rich repeat proteine developmentally regulated and implicated in vertebrate CNS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     01-OCT-2000 (TrEMBLrel. 15, Created)
01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
01-OCT-2003 (TrEMBLrel. 25, Dast annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pfam; PF01826; TIL; 2. —
Pfam; PF00090; tsp 1; 6.
PRINTS; PR01705; TSP1REPEAT.
SMART; SM00209; TSP1; 6.
SMART; SM00215; VWC_out; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TISSUE-Subcommissural organ;
Gobron S., Creveaux I., Monnerie H., Elbitar F.;
Gobron S., Creveaux I., Monnerie H., Elbitar F.;
"Characterization of cattle SCO-spondin.";
Submitted (OCT-1998) to the EMBL/GenBank/DDBJ databases.
EMBL; AJ132106; CAB53759.1; -.
InterPro; IPR0002919; TIP.
InterPro; IPR000894; TSP1.
InterPro; IPR00885; TSP_1.
InterPro; IPR006522; VC_out.
PFANO.ESCA. TIL. 2
                                                                                                                                                                                                                                                                         8888
                                                                                                                                                                                                                                                                                                                                                                      MGD;
SIGNAL
                                                                                                                                                                                                  InterPro; IPR004094; Antistasin.
InterPro; IPR000867; Insl_gro_fac_pr.
InterPro; IPR001007; VWF_C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE
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NCBI_TaxID=9913;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mus musculus
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Fragment).
                                                                                                                                                                                                                                                               GO:0005576; C:extracellular; IEA.
GO:0005520; F:insulin-like growth factor binding;
GO:0004867; F:serine protease inhibitor activity;
GO:0001558; P:regulation of cell growth; IEA.
                                                                                                                                                                                                                                                                                                                                           GO:0005576; C:extracellular;
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PS50092; TSP1; 6.
                                                                    PS50184;
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685 AA;
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                                                          VWFC_1;
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71389 MW;
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25
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Pred. No. 9
POTENTIAL
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development
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Best Local
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InterPro; IPR001757; ATPase E1-E2:
InterPro; IPR006069; Cation ATPase C:
InterPro; IPR006069; Cation ATPase C:
InterPro; IPR006069; Cation ATPase C:
InterPro; IPR008250; B1-E2 ATPase reg.
InterPro; IPR008250; B1-E2 ATPase reg.
InterPro; IPR005834; Hydrolise.
InterPro; IPR005834; Hydrolise.
InterPro; IPR005834; ATPase C; I.
Pfam; PF00689; Cation ATPase C; I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Q9SXK5;
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                                                                                                                                                                                                       TIGREAMS; TIGRO1106; ATPASE-IIC_X-K; 1
TIGREAMS; TIGRO1494; ATPASE_P-type; 4.
PROSITE; PS00154; ATPASE_E1_E2; 1.
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01-0CT-2003
                                                                                                                                                                      SEQUENCE
                                                                                                                                                                                     PROSITE; PSO
ATP-binding;
                                                                                                                                                                                                                                                                             PRINTS; PROO119; CATATPASE. PRINTS; PROO121; NAKATPASE.
                                                                                                                                                                                                                                                                                                                 Pfam; PF00689; Cation ATPase C; Pfam; PF00690; Cation ATPase N; Pfam; PF00122; E1-E2 ATPase; 1. Pfam; PF00702; Hydrolase; 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "Molecular cloning
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Shono M., Wada M.,
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GO:0005524; F:ATP binding; IEA
GO:001562; F:ATPase activity; Coupl
GO:0016787; F:hydrolase activity; IE
GO:0015077; F:monovalent inorganic c
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                                          CYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYE 44
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LOCATION: INTEGRAL MEMBRA
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, Hara Y., Fujii T.;
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Search completed: March Job time: 37.2903 secs

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Maximum DB
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Sequence:
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seq length: 2000000000
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US-10-205-823-271
US-10-1044-678A-1003
US-10-294-025-1003
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US-10-294-025-1003
US-10-291-172-236
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10 US-09-977-406A-86
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Sequence 1003 Ap
Sequence 271, App
Sequence 1003 Ap
Sequence 1003 Ap
Sequence 1023, Ap
Sequence 1027, App
Sequence 87, Appl
Sequence 85, Appl
Sequence 85, Appl
Sequence 84, Appl
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#### ALIGNMENTS

US-09-977-406A-88

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Sequence 88, Application US/09977406A

Publication No. US20030170220A1

GENERAL INFORMATION:
APPLICANT: PRCCYON BIOPHARMA INC.
FILE REFERENCE: 06508-030-US-03

CURRENT APPLICATION UNMBER: US/09/977,406A

CURRENT FILING DATE: 2001-10-15

PRIOR APPLICATION NUMBER: CA 2,321,256

PRIOR FILING DATE: 2000-10-16

PRIOR FILING DATE: 2001-08-20

NUMBER OF SEQ ID NOS: 92

SOFTWARE: Patentin version 3.1

SEQ ID NO 88

LENGTH: 45

TYPE: PRT

ORGANISM: Artificial Sequence
RESULT 2
US-09-977-406A-1
; Sequence 1, Application US/09977406A
; Publication No. US20030170220A1
; GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                      ; FEATURE:
; OTHER INFORMATION: Polypeptide derived from rHuPSP94 sequence (polypeptide analog)
US-09-977-406A-88
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Best Local Similarity
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Pred. No. 4.4e-27;
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  Query Match
                                                                                                                                                                                                          TYPE: PK:
ORGANISM: Homo sapiens
ORGANISM: Homo sapiens
PUBLICATION INFORMATION:
AUTHORS: Ulvsback, M., Lindstrom, C., Weiber, H., Abra
AUTHORS: Lundwall, A"
TITLE: Molecular cloning of a small prostate protein,
TITLE: Molecular cloning of prostate protein, and
                                                                                                                                                                                                                                                                                                                                                                                                           SEQ ID NO 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PSP-94: Use for Treatment of Hypercalcemia and Bone metastasis
FILE REFERENCE: 06508-051-US-02
CURRENT APPLICATION NUMBER: US/10/291,360
CURRENT FILING DATE: 2002-11-08
CURRENT FILING DATE: 2002-11-08
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PRIOR FILING DATE: 2001-11-08
NUMBER OF SEQ ID NOS: 6
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ORGANISM: Homo sapiens
PUBLICATION INFORMATION:
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
                                                                                                       PAGES: 1310-1315
DATE: 1989
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TITLE: Molecular cloning of a small
TITLE: microsemenoprotein, PSP94 or
                                                            DATABASE ACCESSION NUMBER: GI 131436
DATABASE ENTRY DATE: 1988-08-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DATABASE ACCESSION NUMBER: GI 131436
DATABASE ENTRY DATE: 1988-08-01
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                                                                                                                                                                      JOURNAL: Biochem. Biophys. Res Commun.
VOLUME: 164
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DATE: 1989
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    100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 268; DB 1
Pred. No. le-26;
    Score 268;
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beta-inhibin, and
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    DB
    14;
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                                                                                                                                                                                                                                                                                                 Abrahamson, P.A., Lilja,
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Length 94;
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demonstration
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NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn version 3.1
SEQ ID NO 2
LENGTH: 102
TYPE: PRT
ORGANISM: Artificial Sequence
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                                                                                                                                               ; OTHER INFORMATION: US-10-291-360-2
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                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 2, Application US/10291360 Publication No. US20030119744A1 GENERAL INFORMATION:
                                                                                        Best
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SOFTWARE: PatentIn version 3.1 SEQ ID NO 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 2, Application US/09977406A Publication No. US20030170220A1 GENERAL INFORMATION:
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                                                                        Matches
                                                                                          Query Match
Best Local
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                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: PROCYON BIOPHARMA INC
TITLE OF INVENTION: PSP-94: Use 1
FILE REFERENCE: 06508-051-US-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILE REFERENCE: 06508-030-US-03
CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION NUMBER: US/10/291,360 CURRENT FILING DATE: 2002-11-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR FILING DATE: 2000-10-16
PRIOR FILING DATE: 2000-10-16
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                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION NUMBER: CA 2,361,736 PRIOR FILING DATE: 2001-11-08
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NUMBER OF SEQ ID NOS: 92
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
                                                                                                                                                                                  FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OTHER INFORMATION: recombinant human PSP94 (rHuPSP94) produced from yeast
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURE:
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                               1 SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 45
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                                                                                          Similarity
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                                                                    100.0%; ilarity 100.0%; Conservative
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                                                                      Score 268; DB 14;
Pred. No. 1.1e-26;
; Mismatches 0;
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Pred. No. 1.1e-26;
; Mismatches 0;
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; Mismatches
                                                                                                                                                                  human PSP94 (rHuPSP94) produced from yeast
                                                                                                                                                                                                                                                                                                                                                                                                           for Treatment of Hypercalcemia and Bone metastasis
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                                                                                                           DB 14;
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RESULT 6

US-10-012-896-1003

Sequence 1003, Application US/10012896 Publication No. US20020183251A1 GENERAL INFORMATION:

APPLICANT: Xu, Jiangchun APPLICANT: Dillon, Davin C. APPLICANT: Mitcham, Jennifer L.

Jiang, Yuqiu Kalos, Michael D.

Harlocker, Susan L.

Retter, Marc W. Stolk, John A.

Craig H.

Thomas S

APPLICANT

John

Skeiky, Yasir A.W. Hepler, William T. Henderson, Robert A.

Vedvick, Thomas Carter, Darrick Li, Samuel X.

Aijun

PPLICANT

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; ORGANISM: Homo sapiens
US-10-012-896-1003
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SEQ ID NO 1003
LENGTH: 114
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Best Local Similarity
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TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIACNOSIS OF PROSTATE CANCER
PILE REFERENCE: 210121.427C27
CURRENT APPLICATION NUMBER: US/10/012,896
CURRENT FILING DATE: 2001-12-10
NUMBER OF SEQ ID NOS: 1011
                                                        APPLICANT: Anderson, Dustin
TITLE OF INVENTION: MOVEL GENES, COMPOSITIONS, KITS, AND
TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
TITLE OF INVENTION: THERAPY OF PROSTATE CANCER
                                     FILE REFERENCE: MRI-044
                                                                                                                                                                                                                                                                                                       APPLICANT: Schlegel, Robert
APPLICANT: Monahan, John E.
CURRENT APPLICATION NUMBER: US/10/205,823
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                                                                                                                                   Hoersch, Sebastian
Kamatkar, Shubhangi
Wonsey, Angela M.
Glatt, Karen
Zhao, Xumei
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                                                                                                                                                                                                                                            Gannavarapu, Manjula
Gorbatcheva, Bella
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Endege, Wilson O.
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Wantanabe,
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Houghton, Raymond L.
Vinals de Bassols, Carlota
                                                                                                                                                                                                                                                                                                                                                                       Application US/10205823 o. US20030108963A1
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Pred. No. 1.2e-26;
); Mismatches 0;
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                                                                              US-10-144-678A-1003
                                                                                                            TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER FILE REFERENCE: 210121.427C28
CURRENT APPLICATION NUMBER: US/10/144,678A
CURRENT FILING DATE: 2002-08-12
NUMBER OF SEQ ID NOS: 1033
SOFTWARE: FASTSEQ for Windows Version 3.0
SEQ ID NO 1003
LENGTH: 114
TYPE: PRT
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Best Local Similarity
Matches 45; Conserv
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SEQ ID NO 271
LENGTH: 1114
Query Match
Best Local Similarity
Matches 45; Conserv
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PRIOR APPLICATION NUMBER: 60/325,020
PRIOR FILING DATE: 2001-09-25
PRIOR APPLICATION NUMBER: 60/341,746
PRIOR FILING DATE: 2001-12-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR FILING DATE: 2002-03-05
NUMBER OF SEQ ID NOS: 455
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PRIOR APPLICATION NUMBER: 60/314,356
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ORGANISM: Homo sapiens
                                                                                              ORGANISM: Homo sapiens
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Fanger, Gary R.
Retter, Marc W.
Stolk, John A.
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Mitcham, Jennifer L.
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Houghton, Raymond L.
Vinals y de Bassols,
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Deng, Ta
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Carter, Darrick
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                    100.0%; Score 268; DB 14; 100.0%; Pred. No. 1.2e-26;
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Pred. No. 1.2e-26;
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APPLICANT: Kalos, Michael D.

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C29

CURRENT APPLICATION NUMBER: US/10/294,025

CURRENT FILING DATE: 2002-11-12

NUMBER OF SEQ ID NOS: 1038

SOFTWARE: FastSEQ for Windows Version 3.0

SEQ ID NO 1003

LENGTH: 114

TYPE: TOTAL
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                                                                                                                                                                                                                           SEQ ID NO 236
LENGTH: 114
                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Publication No. US20
GENERAL INFORMATION:
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Best Local
                                                                                                                        Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT FILING DATE: 2000-11-08
PRIOR APPLICATION NUMBER: 09/693,267
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 09/665,363
PRIOR APPLICATION NUMBER: 09/616,847
PRIOR APPLICATION NUMBER: 09/616,847
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILE REFERENCE: 21272-045
CURRENT APPLICATION NUMBER: US/10/291,172
CURRENT FILING DATE: 2000-11-08
                                                                                                                                                                                                                                                                       NUMBER OF SEQ ID NOS: 752
                                                                                                                                                                                                                                                                                         PRIOR APPLICATION NUMBER: 09/519,705
PRIOR FILING DATE: 2000-03-07
                                                                                                                                                                                                                                                                                                                                                                        PRIOR FILING DATE: 2000-07-14
PRIOR APPLICATION NUMBER: 09/596,193
PRIOR FILING DATE: 2000-06-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Hyseq, Inc
TITLE OF INVENTION: No. US20030228584A1el Nucleic Acids and Polypeptides
                                                                                                     Local
                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: 09/574,454 FILING DATE: 2000-05-19
                                                                                                                                                                                                          PRT
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                                                                                                     Similarity
                            SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 45
SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWOTDNCETCTCYET 65
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                                                                               100.0%; ilarity 100.0%; Conservative 0;
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                                                                            Score 268; DB 15;
Pred. No. 1.2e-26;
Mismatches 0;
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Pred. No. 1.2e-26;
); Mismatches 0;
                                                                                                                      Length 114;
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RESULT 11

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                                                                                                                                                                                                                                                                                                                                                                                                                                         ; OTHER INFORMATION: Polypeptide derived from rHuPSP94 sequence (polypeptide analog) US-09-977-406A-87
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US-09-977-406A-87
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                                                                                                                                                       US-09-977-406A-86
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-09-925-300-1027
Sequence 86, Application US/0997/7406A
Publication No. US20030170220A1
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
TITLE REFERENCE: 06508-030-US-03
FILE REFERENCE: 06508-030-US-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
NUMBER OF SEQ ID NOS: 92
SOFTWARE: Patentin version 3.1
SEQ ID NO 87
LENGTH: 44
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PRIOR FILING DATE: 1999-03-12
NUMBER OF SEQ ID NOS: 1890
SOFTWARE: PATENTIN Ver. 2.0
SEQ ID NO 1027
LENGTH: 132
                                                                                                                                                                                                                                                                                                                                                 Matches
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Best Local
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GENERAL INFORMATION:
APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 87, Application US/09977406A Publication No. US20030170220A1
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILE REFERENCE: 06508-030-US-03
CURRENT APPLICATION NUMBER: US-05
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR EILING DATE: 2000-10-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION NUMBER: PCT/US00/05988 PRIOR FILING DATE: 2000-03-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Craig Rosen,
APPLICANT: Steve Ruben
TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CURRENT APPLICATION NUMBER: US/09/925,300
CURRENT FILING DATE: 2001-08-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                    Local
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Pred. No. 1.5e-26;
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CURRENT FILING DATE:

2001-10-15

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US-09-977-406A-85
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US-09-977-406A-84
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PRIOR FILING DATE: 2001-08-20
NUMBER OF SEQ ID NOS: 92
SOFTWARE: Patentin version 3.1
SEQ ID NO 86
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQ ID NO 85
LENGTH: 42
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                                                                                                                                                                                                                             Sequence 84, Application US/09977406A Publication No. US20030170220A1 GENERAL INFORMATION:
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Best Local Similarity
Matches 43; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
CURRENT APPLICATION NUMBER: US/09/977,406A CURRENT FILING DATE: 2001-10-15 PRIOR APPLICATION NUMBER: CA 2,321,256 PRIOR FILING DATE: 2000-10-16 PRIOR APPLICATION NUMBER: CA 2,355,334 PRIOR APPLICATION NUMBER: CA 2,355,334 PRIOR FILING DATE: 2001-08-20
                                                                                                                                                     APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REPERENCE: 06508-030-US-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
NUMBER OF SEQ ID NOS: 92
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILE REFERENCE: 06508-030-US-03
CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION NUMBER: CA 2,321,256 PRIOR FILING DATE: 2000-10-16
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TYPE: PRT
TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURE: OTHER INFORMATION: Polypeptide derived from rHuPSP94 sequence (polypeptide analog)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                92.5%; Score 248; DB 10; Length 42; ilarity 100.0%; Pred. No. 1.5e-24; Conservative 0; Mismatches 0; Indels
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SEQ ID NOS: 92 PatentIn version 3.1

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                                                                                                                  ; ORGANISM: Artificial Sequence ; FEATURE: OTHER INFORMATION: Polypeptide derived from rHuPSP94 sequence US-09-977-406A-84
                                                                                                                                                                                         SEQ ID NO 84
LENGTH: 41
                                                           Matches
                                                                      Query Match
Best Local Similarity
                  5 IPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 45
IPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET
                                                           Conservative
                                                                      90.3%;
                                                           0
                                                                        Score 242; DB 10;
Pred. No. 8.5e-24;
                                                          Mismatches
                                                                                      Length 41;
                                                           Indels
 41
                                                           0;
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Search completed: March 11, Job time: 29.7581 secs

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368
1 EWQTDNCETCTCYETEISCC.....YIVVEKKDFKKTCSVSEWII
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 3 Q9NSIBG7
1 Q8BS96
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Q9C6T5
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09C6T5
P91521
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Q8mgg2 caenorhabdi
Q17429 caenorhabdi
Q8mm07 caenorhabdi
Q9mm07 caenorhabdi
Q9ibg7 xenopus lae
Q9nzv1 homo sapien
Q8bsy6 mus musculu
Q95110 mus musculu
Q9524 caenorhabdi
Q16406 caenorhabdi
Q16406 caenorhabdi
Q9u8g8 manduca sex
Q8aww5 gallus gall
Q9c6p1 arabidopsis
Q9c6p2 arabidopsis
Q9c6p3 plasmodium
Q9w4y4 drosophila
Q9w4y4 drosophila
Q9w4y4 drosophila
Q9w4y4 drosophila
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                              EMBL; Z71178; CAD44089.1; -..

R EMBL; AL021478; CAD44089.1; JOINED.

R WormPep; B0024.14d; CE31279.

R GO; GO:0004867; F:serine procease inhibitor activity; IEA.

InterPro; IPR004094; Antistasin.

R InterPro; IPR001007; VWF C.

R Pfam; PF02822; Antistasin; 3.

R Pfam; PF02823; Antistasin; 3.

R Pfam; PF00093; vwc; 4.

SMART; SM00214; VWG; 8.

R PROSITE; PS01208; VWFC 2; 2.

SEQUENCE 898 AA; 98308 MW; F9686C10837AF35C CRC64;
  Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A. MCMurray A.A.; Submitted (APR-1996) to
                                                                                                                                                                                                                                             Caenorhabditis elegans.
Eukaryota; Metazoa; Nematoda; Chromadorea;
Rhabditidae; Peloderinae; Caenorhabditis.
NCBI_TaxID=6239;
                                                                                                                                                                                                                                                                                     B0024.14d protein.
B0024.14 OR B0024.14D.
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Q8MQG2;

Q1-QCT-2002 (TrEMBLrel. 22,

Q1-QCT-2002 (TrEMBLrel. 22,

Q1-JUN-2003 (TrEMBLrel. 24,
                                                                                                                                          investigating biology.";
Science 282:2012-2018(1998).
                                                                                                                                                                              MEDLINE=99069613; PubMed=9851916;
                                                                                                                                                             "Genome sequence of the nematode C.elegans: A platform
                                                                                                                                                                                         SEQUENCE FROM N.A.
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 Score 85.5; DB 5; Length 898; Pred. No. 0.082;
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Q8R417
Q80UM5
Q8BM06
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Q9gz22 cryptospori
Q9gz22 cryptospori
Q09538 caenorhabdi
Q23729 cryptospori
Q7t3q2 brachydanio
Q8mlu9 drosophila
Q9w2c6 drosophila
Q9w2c4 drosophila
Q9wzz4 drosophila
Q9yzz4 drosophila
Q26637 strongyloce
Q7sy84 zenopus lae
P91776 pacifastacu
Q8tf36 homo sapien
Q8tf36 homo sapien
Q8tf36 homo sapien
P91465 caenorhabdi
Q94446 chironomus
Q99jil8 mus musculu
Q8f53 plecoglossu
Q95ji8 mus musculu
Q8f515 caenorhabdi
Q9446 chironomus
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Q8f515 caenorhabdi
Q8iwc8 homo sapien
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Pfam; PF00093; vwc; 4.
SMART; SM00214; VWC; 6.
PROSITE; PS01208; VWFC 1; 6.
PROSITE; PS50184; VWFC 2; 2.
SEQUENCE 909 AA; 99832 MW;
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Q17429;
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01-JUN-2001 (TrEMBLrel.
01-JUN-2003 (TrEMBLrel.
Q8MM07;
01-OCT-2002
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EMBL; ALO21478; CAA94886.2; JOINED.
EMBL; ALO21478; CAC35857.1; --
EMBL; Z71178; CAC35857.1; JOINED.
PIR; T18649; T18649.
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Caenorhabditis elegans.
Eukaryota; Metazoa; Nematoda; Chromadorea;
Eukaryota; Melazoa; Nematoda; Caenorhabditis.
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                   Q8MM07
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nterPro; IPR001007; VWF_C.
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                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                             P; P15358; 1SKZ.
GO:0004867; F:serine protease inhibitor activity; IEA
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                    PRELIMINARY;
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Pred. No. 0.083;
.2; Mismatches 27
                    PRT;
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RESULT 4
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01-OCT-2000
01-OCT-2000
01-JUN-2003
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 SEQUENCE FROM N.A.
TISSUB-Embryonic floor plate;
TISSUB-Embryonic floor plate;
MEDLINE=20266358; PubMed=10779551;
Matsui M., Mizuseki K., Nakatani J., Nakanishi S.
"Xenopus Kielin: A dorsalizing factor containing
repeats secreted from the embryonic midline.";
Proc. Natl. Acad. Sci. U.S.A. 97:5291-5296(2000).
                                                                                                                            Xenopus laevis (African clawed frog).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidea; Pipidae;
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B0024.14b protein.
B0024.14 OR B0024.14B.
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Eukaryota; Metazoa; Nem
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InterPro; IPR000867; Insl_gro_fac_pr.
InterPro; IPR001007; VWF_C.
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ep; B0024.14b; CE3127
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Caenorhabditis.
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Pred. No. 0.
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SMART; SM00214; VWC; 27.

SMART; SM00216; VWD; 1.

SMART; SM00216; VWD; 1.

PROSITE; PS01186; EGF 2; 1.

PROSITE; PS01208; VWFC 1; 20.

PROSITE; PS50184; VWFC 2; 19.

SEQUENCE 2327 AA; 255800 MW;
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InterPro; IPR002919; TIL Cysrich.
InterPro; IPR003129; TSPN.
InterPro; IPR001007; VWF C.
InterPro; IPR001846; VWF D.
Pfam; PF01826; TIL; 1.
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HSSP; P56682; 1CCV
GO; GO:0005198; F:structural
GO; GO:0007155; P:cell adhes:
                                                                                                                                                                               NOILE G., Georgas K., Holmes G.P., Little M.H., Yamada T., "CRIM1, a novel gene encoding a cysteine-rich repeat protein, is developmentally regulated and implicated in vertebrate CNS development and organogenesis.";
                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.
MEDLINE=20108580; PubMed=10642437;
MEDLINE=20108580; PubMed=10642437;
Kolle G. Georgasi K., Holmes G.P., Little M.H., Yamada T.;
"CRIM1, a novel gene encoding a cysteine-rich repeat protein, is
developmentally regulated and implicated in vertebrate CNS development
                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      protein)
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01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-UN-2003 (TrEMBLrel. 24, Last annotation update)
Cysteine-rich repeat-containing protein S52 precursor
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01-OCT-2000 (Tr
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                                                                  Gonew, HGNC:2359; CRIM1.
GO; GO:0016021; C:integral to membrane;
GO; GO:0005010; F:insulin-like growth fa
GO; GO:0007399; P:neurogenesis; TAS.
                                                                                                                             EMBL; AF167706; AAF34409.1; -.
EMBL; AF168681; AAG37011.1; -.
HSSP; P15358; ISKZ.
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            InterPro, IPR004094; Antistasin.
InterPro, IPR000867; Insl gro_fac_pr.
InterPro; IPR000169; Shprot acsite.
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Pred. No. 0.62;
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Pfam; PF02822; Antistasin;

RESULT 7
Q9JLL0:
ID Q9JI
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DT 01-C

Q9JLL0 Q9JLL0; 01-OCT-2000

(TrEMBLrel. 15, PRELIMINARY;

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Q8BS96; TEMBLrel. 23, C1
Q1-MAR-2003 (TEMBLrel. 23, Li
Q1-OCT-2003 (TEMBLrel. 25, L
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EMBL; AKO34889; BAC288691; --
MGD; MGI:1354756; Crim1.
InterPro; IPRO01007; VWF C.
Pfam; PP00093; VWG; 2.
PROSITE; PS01208; VWFC 1; 2.
PROSITE; PS01208; VWFC 1; 2.
PROSITE; PS0184; VWFC 2; 2.
NON TER
SEQUENCE 286 AA; 32314 MW; 7
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SIGNAL
SEQUENCE
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SMART; SM00121; IB; 1.

SMART; SM00214; VWC; 6.

PROSITE; PS00139; THIOL PROTEASE CYS;

PROSITE; PS01208; VWFC_1; 6.

PROSITE; PS50184; VWFC_2; 6.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STRAIN=C57BL/6J; TISSUE=Embryo; MEDLINE=22354683; PubMed=12466851; The FANTOM Consortium,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mus musculus (Mouse).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         the RIKEN Genome Exploration Research Group
"Analysis of the mouse transcriptome based
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NCBI_TaxID=10090;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Nature
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VCHFS
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113737 MW; 10CBF02A5C579C27 CRC64;
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                                                                                                                                                                                          Score 77.5; Di
Pred. No. 0.25
9; Mismatches
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functional
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Q965Z4;
01-DEC-2001
01-DEC-2001
01-MAR-2003
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NON TER
SIGNAL
"Genome sequence of the nematode C. elegans: a investigating biology. The C. elegans Sequencin Science 282:2012-2018(1998).
                                                                                                                                                                                                                                           Caenorhabditis elegans.
Eukaryota; Metazoa; Nematoda;
Rhabditidae; Peloderinae; Cae
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                                                                                                                   SEQUENCE FROM N.A. STRAIN=Bristol N2; MEDLINE=99069613;
                                                                                                                                                                                                                    NCBI_TaxID=6239;
                                                                                                                                                                                                                                                                                                                                        Hypothetical
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Pfam; PF00093; vwc; 6.
SMART; SM00121; IB; 1.
SMART; SM00214; VWC; 6.
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MEDLINE=20108580; PubMed=10642437;

MEDLINE=20108580; PubMed=10642437;

Kolle G., Georgasi K., Holmes G.P., Little M.H., Yamada T.;

"CRIMI, a novel gene encoding a cysteine-rich repeat protein, is

"CRIMI, a novel gene encoding a cysteine-rich repeat protein, is

"CRIMI, a novel gene encoding a cysteine-rich repeat protein, is

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01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
Cysteine-rich repeat-containing protein CRIM1 precursor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MGD; MGI:1354756; Crim1.
GC; GC:0005576; C:extracellular; IEA.
GC; GC:0005520; F:insulin-like growth factor binding;
GC; GC:0005520; F:insulin-like growth factor binding;
GC; GC:0004867; F:serine protease inhibitor activity;
GC; GC:0001558; P:regulation of cell growth; IEA.
InterPro; IPR004094; Antistasin.
InterPro; IPR0010094; Antistasin.
InterPro; IPR001007; VWFC.
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EMBL; AF168680; AAF34410.1;
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Mammalia; Eutheria;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      813
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; VWFC_1;
; VWFC_2;
                                                                                                                        PubMed=9851916;
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25
113160
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Rodentia;
                                                                                                                                                                                                                                                                                                                                     rel. 19, Conel. 19, Lonel. 23, Lonel. 23, Lonel. 23, Lonel. 2K105.1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21.1%;
                                                                                                                                                                                                                                              oda; Chromadorea;
Caenorhabditis.
                                                                                                                                                                                                                                                                                                                                                                 Last
Last
                                                                                                                                                                                                                                                                                                                                                                                                                Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 77.5; D
Pred. No. 0.86
9; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9
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MW; 743058AA481D5ED8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Craniata; Ver
Sciurognathi;
                                                                                                                                                                                                                                                                                                                                                                    annotation
                                                                                                                                                                                                                                                                                                                                                                                           sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   186
                                                Sequencing
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thi; Muridae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ã
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        . 86;
                                                                                                                                                                                                                                                                                                                                                                                        update)
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                                                                                                                                                                                                                                                                     Rhabditida;
                                                                                                                                                                                                                                                                                                                                                               update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 21;
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                                                platform for
ng Consortium.";
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CRC64;
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; Murinae; Mus
                                                                                                                                                                                                                                                                     Rhabditoidea;
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016406
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                                 Query Match
Best Local S
Matches 21
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                                                                                                                   "Direct Submission.";
Submitted (SEP-2001) to the E
EMBL; AF016444; AAB65934.1; -
PIR; D88990; D88990.
WormPep; C36C5.12; CE08601.
InterPro; IPR002542; DUF19.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
STRAIN-BRISTON N2;
Waterston R.;
"Direct Submission.";
"Direct Submission.";
Submitted (JUN-2001) to the El
EMBL; AC006830; AAK68608.1; -
EMBL; AC006831; CE27646.
InterPro; IPR002542; DUF19;
Pfam; PR01579; DUF19; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-JAN-1998
01-JAN-1998
01-OCT-2003
                                                                                                                                                                                                                                                                                                           Science
[2]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.
STRAIN-Bristol N2;
Latreil P., Beck C., Le T.;
"The sequence of C. elegans
Submitted (MAR-1999) to the
                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
STRAIN=Bristol N2;
Henkhaus J., Wohldmann P.,
"The sequence of C. elegan
                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A. STRAIN=Bristol N2; MEDLINE=99069613;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-JAN-1998 (TrEMBLrel.
01-OCT-2003 (TrEMBLrel.
Hypothetical protein.
                                                                                                        InterPro; IPR002542; DUF19. Pfam; PF01579; DUF19; 1.
                                                                                                                                                                                                        SEQUENCE FROM N.A. STRAIN-Bristol N2;
                                                                                                                                                                                                                                   Submitted [3]
                                                                                                                                                                                                                                                                                                                                                                                                                                          Caenorhabditis elegans.
Eukaryota; Metazoa; Nem
                                                                                    Hypothetical
SEQUENCE 2
                                                                                                                                                                                               Waterston R.;
                                                                                                                                                                                                                                                                                                                    "Genome sequence of the nema investigating biology. The C Science 282:2012-2018(1998).
                                                                                                                                                                                                                                                                                                                                                                                                                   NCBI_TaxID=6239;
                                                                                                                                                                                                                                                                                                                                                                                                                                 Rhabditidae; Peloderinae;
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NCETCTCYETEISCCT---LVSTPVGYD--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CEKI FKRKDCM----KKDIVKTCGKKEW
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                                                                                                                                                                                                                                            (AUG-1997)
                                                                                    il protein.
219 AA; 2
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                                    Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRELIMINARY;
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                                                                                   AA,
                                                                                                                                                                                                                                                                                                                                                                     PubMed=9851916;
                                                                                                                                                                                                                                             elegans
) to the
                                                                                                                                                                                                                                                                                                                                                                                                                                Nematoda; Chromadorea; Rhabditida; Rhabditoidea; rinae; Caenorhabditis.
                                                                                   25309 MW;
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25
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The C. ele
                                              .68;
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                                                                                                                                                                                                                                            Antoniou B.;
s cosmid C36C5.";
e EMBL/GenBank/DDBJ
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••
                                                                                                                                                                      EMBL/GenBank/DDBJ databases
                                 Score 76; DB
Pred. No. 0.3;
8; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Last sequence update)
Last annotation update)
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EMBL/GenBank/DDBJ databases.
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                                                                                                                                                                                                                                                                                                                                 ode C. elegans: a platform for
elegans Sequencing Consortium.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRT;
                                                                                    0B7488D3F392475C CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
                                             76;
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No. 0.
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                                            DB
7.3;
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                                    23;
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                                                         Length
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                                    Indels
                                                           219
|: |:| | | |
                                    30;
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chick spinal

IEA IEA

Euteleostomi; idae; Phasianinae;

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맑
 RESULT
Q8AWW5
ID Q8
AC Q8
AC Q8
DT 01
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Best Local S
Matches 19
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InterPro; IPR002223; K
InterPro; IPR000884; Tt
InterPro; IPR008197; WA
Pfan; PF02822. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Q9U8G8;
01-MAY-2000
01-MAY-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Manduca sexta (Tobacco hawkmoth) (Tobacco hornworm).

Bukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;

Bukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;

Neoptera; Endopterygota; Lepidoptera; Glossata; Ditrysia; Sph

Sphingidae; Sphinginae; Manduca.
 Q8AWW5;
01-MAR-2003
01-MAR-2003
                                                                                                                                                                                                                              Signal.
SIGNAL
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                        ProDom; PD000222; Kunitz_BPTI; SMOART; SM00408; IGc2; 2. SMART; SM00131; KU; 10. SMART; SM00209; TSP1; 7. SMART; SM00209; TSP1; 7. SMART; SM00207; WAP; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE twom w.A.
MEDLINE=99457716; PubMed=10528409;
Nardi J.B., Marros R., Walden K.K., Lampe D.J., R
Nardi J.B., Marros R., Walden K.K., Lampe D.J., R
"Expression of lacunin, a large multidomain extra
"Expression of lacunin, a large multidomain extra
                                                                                                                                                                                                                                                                                  PROSITE; PS00317; 4 DISULFIDE CORE; PROSITE; PS00280; BFTI KUNITZ 1; 8. PROSITE; PS50279; BFTI KUNITZ 2; 10. PROSITE; PS50835; IG LIKE; 2. PROSITE; PS50835; IG LIKE; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                 Pfam; PF00090; tsp_1; 5.
Pfam; PF00095; wap; 1.
PRINTS; PR00759; BASICPTASE.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GO; GO:0004867;
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HSSP; P12111; 2KNT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
                                          Q8AWW5
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                                                                                                                                                                                                                                                                          mmunoglobulin
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                                                                                                                  2807 DGCERCSCVQVEIDCEPL-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PF02822; Antistasin; 4. PF00047; ig; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PF00014; Kunitz_BPTI; 10
                                                                                                                                                                       l Similarity
19; Conserv
                                                                                                                                            u
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NCEAVVYIHEDFSDCSDKLTAKKSVCFDNWDPIPDGIHLEEDEKKVEKMKKETCKRYFGK 178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EDCKYIVVEKKDPKKTCSVSEW
                                                                                                                                            DNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEK--KDPKKTCSVSE 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 IPR007110;
                                                                                                                                                                                                                                1
3198 AA;
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 (TrEMBLrel.
                                            PRELIMINARY;
                                                                                                                                                                                                                                                                         domain;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAF04457.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            serine protease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; Ig_c2.
; Kunitz_BPTI.
; TSP1.
                                                                                                                                                                                                                                21 POTENTIAL.
349364 MW; AB4ACI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WAP
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                                                                                                                                                                                       20.4%;
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                                                                                                                                                                                                                                                                         Protease inhibitor;
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13,
25,
 23,
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Last annotation update)
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Created)
Last sequ
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                                                                                                                  -----KLECERL----KCQYLVERQVGADGCERCRCSE 2853
                                                                                                                                                                                       Score 75; I
Pred. No. 5.
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                                                                                                                                                                          Mismatches
   sequence update
                                                                                                                                                                                                                                   AB4ACD459C0D9134 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               inhibitor
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                                                                                                                                                                          18;
                                                                                                                                                                                                    Length 3198
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                                                                                                                                                                                                                                                                            protease
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                                                                                                                                                                            14;
                                                                                                                                                                                                                                                                            inhibitor;
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Q9C6P1
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       Query Match
Best Local S
Matches 18
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EMBL; $\frac{1}{2}\] AAMABASSI: ...

GO; GO:0005576; C:extracellular; IEA.

GO; GO:0005576; F:insulin-like growth fa

GO; GO:0005570; F:insulin-like growth fa

GO; GO:0004867; F:serine protease inhibi

GO; GO:0001558; P:segulation of cell gro

InterPro; IPR004094; Antistasin.

InterPro; IPR004094; Insl gro_fac_pr.

InterPro; IPR006552; VC_out.

InterPro; IPR001007; VWF_C.

Pfam; PF012822; Antistasin; 4.

Pfam; PF012823; Antistasin; 4.

Pfam; PF012821; Antistasin; 4.

SMART; SM00121; VWC; 6.

SMART; SM00121; VWC; 6.

SMART; SM00214; VWC; out; 3.

SMART; SM00215; VWC; out; 3.

SMART; SM00215; VWC out; 3.

SMART; SM00215; VWC; 1.

SMART; PS01208; VWFC_1; 6.

PROSITE; PS01208; VWFC_2; 6.

SEQUENCE 1048 AA; 114942 MW; 25E4D82
                                                                                                                                                                                                                                                              Q9C6P1 PRELIMINARY; PRT; Q9C6P1; Createc O1-JUN-2001 (TrEMBLrel. 17, Last sc O1-JUN-2001 (TrEMBLrel. 17, Last at O1-CCT-2003 (TrEMBLrel. 25, Last at Hypothetical protein (Fragment). F17J6.24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.

MEDLINE=22395914; PubMed=12508231;

Kolle G., Jansen A., Yamada T., Li'

Kolle G., Jansen A. (Sanda T.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cord.";
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Archosauria; Aves; Neognathae; Galliformes; Phasianidae;
    Theologis A., Ecker J.R., Palm C.J., Federspiel N.A., Kaul S., White O., Alonso J., Altafi H., Araujo R., Bowman C.L., Brooks S.Y., Buehler E., Chan A., Chao Q., Chen H., Cheuk R.F., Chin C.W., Chung M.K., Conn L., Conway A.B., Conway A.R., Creasy T.H., Dewar K., Dunn P., Etgu P., Feldblyum T.V., Feng J.-D., Fong B., Fujii C.Y., Gill J.E., Goldsmith A.D., Haas B., Hansen N.F., Hughes B., Huizar L., Hunter J.L., Jenkins J., Johnson-Hopson C., Khan S., Khaykin E., Kim C.J., Koo H.L., Kremenetskaia I., Kurtz D.B., Kwan A., Lam B., Langin-Hooper S., Lee A., Lee J.M., Lenz C.A., Li J.H., Li Y.-P.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Dev. Dyn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gallus gallus
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                                                                                                                                                                                                      Arabidopsis thaliana (Mouse-ear cress).
Eukaryota; Viridiplantae; Streptophyta; Embryophyta;
Eukaryota; Viridiplantae; Streptophyta; Core є
Spermatophyta; Magnoliophyta; eudicotyledons; core є
eurosids II; Brassicales; Brassicaceae; Arabidopsis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NCBI_TaxID=9031;
                                                                                                                                                SEQUENCE FROM N.A. STRAIN=cv. Columbi
                                                                                                                                 MEDLINE=21016719; PubMed=11130712;
                                                                                                                                                                                        NCBI_TaxID=3702;
                                                                                                                                                                                                                                                                                                                                                                                                                          760 S 760
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  705
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     <u>دی</u> -
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ilarity 29.5%;
Conservative
                                                                                                                                                  Columbia;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 73.5; DB
Pred. No. 2.7;
8; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                           Created)
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1 in the developing
                                                                                                                                                                                                                                                                                              annotation
                                                                                                                                                                                                                                                                                                            sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            owth factor binding; inhibitor activity;
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                                                                                                                                                                                                                          Embryophyta; Tracheopedons; core eudicots;
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                                                                                                                                                                                                                                                                                                            update)
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Length Indels

1048; 7;

Gaps

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Tracheophyta;

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RESULT 13

QPCGT5

ID QPCGT5

ID QPCGT
AC QPCGT
DC 01-UU
DT 01-UC
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GN F4M15
OS Arabi
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White O., Alonso J., Altafi H., Aranjo R., Bowman C.L., Brooks S.Y.,
A Buehler E., Chan A., Chao Q., Chen H., Cheuk R.F., Chin C.W.,
A Buehler E., Chan A., Chao Q., Chen H., Cheuk R.F., Chin C.W.,
A Chung M.K., Conn L., Conway A.B., Conway A.R., Creasy T.H., Dewar K.,
A Chung M.K., Conn L., Conway A.B., Conway A.R., Creasy T.H., Dewar K.,
A Chung M.K., Conn L., Conway A.B., Conway A.R., Creasy T.H., Dewar K.,
A Chung M.K., Conn L., Conway A.B., Conway A.R., Creasy T.H., Dewar K.,
A Chung M.K., Conn L., Conway A.B., Conway A.R., Creasy T.H., Dewar K.,
A Chung M.K., Conn L., Conway A.B., Creasy T.H., Dewar K.,
A Chung M.K., Conn L., Conway A.B., Conway A.R., Creasy T.H., Dewar K.,
A Minter J.L., Jenkins J., Johnson-Hopson C., Khan S., Kaykin E.,
A Kim C.J., Koo H.L., Kremenetskala I., Kurtz D.B., Kwan A., Lam B.,
A Kim C.J., Koo H.L., Kremenetskala I., Kurtz D.B., Kwan A., Lam B.,
A Kim C.J., Koo H.L., Kremenetskala I., Kurtz D.B., Kwan A., Lam B.,
A Kim C.J., Koo H.L., Kremenetskala I., Kurtz D.B., Kwan A., Lam B.,
A Kim C.J., Koo H.L., Kremenetskala I., Kurtz D.B., Kwan A., Lam B.,
A Kim C.J., Koo H.L., Kremenetskala I., Kurtz D.B., Kwan A., Lam B.,
A Kim C.J., Koo H.L., Kremenetskala I., Kurtz D.B., Kwan A., Lam B.,
A Kim C.J., Koo H.L., Kremenetskala I., Kurtz D.B., Kwan A., Lam B.,
A Kim C.J., Koo H.L., Kremenetskala I., Kurtz D.B., Kwan A.,
A Militscher J., Miranda M., Nguyen M., Nguyen M., Nguyen B.I.,
A Militscher J., Miranda M., Nguyen M., Nguyen M., Southwick A.M.,
A Ma D., Yu G., Fraser C.M., Venter J.C., Davis R.W.,
McLerback T., Van Aken S., Vaysberg M., Vysotskaia V.S., Walker M.,
McLerback T., Wan Aken S., Vaysberg M., Vysotskaia V.S., Walker M.,
McLerback T., Wan Aken S., Vaysberg M., Vysotskaia V.S., Walker M.,
McLerback T., Wan Aken S., Vaysberg M., Vysotskaia V.S., Walker M.,
McLerback T., Wan Aken S., Vaysberg M., Viscotskaia V.S., Walker M.,
McLerback T., Wan Aken S., Walker J.C., Davis R.W.,
McLerback T., Wan Aken S., Walker J.C.,
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Best Local S
Matches 15
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01-JUN-2001
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01-OCT-2003
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Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermacophyta; Magnoliophyta; eudicotyledons; core eudicots; roside eurosids II; Brassicales; Brassicaceae; Arabidopsis, MCBI TaxID=3702;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Lin X., Liu S.X., Liu Z.A., Luros J.S., Maiti R., Marziali A., Militscher J., Miranda M., Ngyyen M., Nierman W.C., Osborne B.I., Pai G., Peterson J., Pham P.K., Rizzo M., Rooney T., Rowley D., Sakano H., Salzerg S.L., Schwartz J.R., Shinn P., Southwick A.M., Sun H., Tallon L.J., Tambunga G., Toriumi M.J., Town C.D., Utterback T., Van Aken S., Vaysberg M., Vysotskaia V.S., Walker M., Wu D., Yu G., Fraser C.M., Venter J.C., Davis R.W., "Sequence and analysis of chromosome 1 of the plant Arabidopsis "Large C.M., Van Aken S., Vaysberg M., Vaysotskaia V.S., Walker M., Venter J.C., Davis R.W.,"
Hypothetical SEQUENCE 1
                                                                                                                                         EMBL; AC079027; AAG50782.1; PIR; A96544; A96544.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STRAIN=cv. Columbia;
MEDLINE=21016719; PubMed=11130712;
                                                                    InterPro; IPR006969; Sti
Pfam; PF04885; Stigl; 1.
                                                                                                                                                                                                                 Nature 408:816-820(2000)
                                                                                                                                                                                                                                                           thaliana
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Nature 408:816-820(2000).
EMBL; AC079279; AAG51198.1;
InterPro; IPR006969; Stig1.
Pfam; PF04885; Stig1; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               thaliana.";
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                                                                                                      IPR006969; Stig1.
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(TIEMBLIE1. 17, Last sequence update)
(TIEMBLIE1. 25, Last annotation updat
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                                  protein
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Pred. No. 0.34
L7; Mismatches
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WA Gardner M.J., Hall N., Fung E., White O., Berriman M., Hyman R.W.,

A Gardner M.J., Pain A., Nelson K.E., Bowman S., Paulsen I.T., James K.,

A Eisen J.A., Rutherford K., Salzberg S.L., Craig A., Kyes S.,

Chan M.-S., Nene V., Shallom S.J., Suh B., Peterson J., Angiucli S.,

A Pertea M., Allen J., Selengut J., Haft D., Mather M.W., Vaidya A.B.,

A Martin D.M.A., Fairlamb A.H., Fraunholz M.J., Roos D.S., Ralph S.A.,

A McFadden G.I., Cummings L.M., Subramanian G.M., Mungall C.,

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NR EMBL; AB014822; AAN35967.1; -.

NR EMBL; AB014822; AAN35967.1; -.

NR Pfam: PP03650: Fumble: 1.
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                                         TROL OR BUIDANNIE (Fruit 11y).
Drosophila melanogaster (Fruit 11y).
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygo
Eukaryota; Endopterygota; Diptera; Brachycera; Muscomorpha;
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Q9W4Y4;
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01-MAR-2003
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01-OCT-2002 (TrEMBLrel.
01-OCT-2003 (TrEMBLrel.
  SEQUENCE
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Hypothetical protein.
SEQUENCE 766 AA; 91041
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Apicomplexa; Haemosporida; Plasmodium.
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RA Adams M.D., Celniker S.E., Holt R.A., Shourner M., Henderson S.N.,
RA Adams M.D., Celniker S.E., Holt R.A., Sabburner M., Henderson S.N.,
RA George R.A., Lewis S.E., Richards S.A., Sabburner M., Henderson S.N.,
RA George R.A., Lewis S.E., Richards S.A., Sabburner M., Henderson S.N.,
RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
RA Sutton G.G., Wortman J.R., Yandell M.D., Sabsun C.R., Miklos G.L.G.,
RA Abril J.F., Agbayani A., An H.-J., Andrews-Framkork C., Baldwin D.,
RA Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley S.M.,
RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
RA Burtis K.C., Busam D.A., Butler H., Cadeu B., Center A., Chandra I.,
RA Genzhou D., Botchan M.R., Bouck J., Bayraktaroglu L., Beasley E.M.,
RA Genzhou D., Botchan M.R., Bouck J., Bayraktaroglu L., Beasley E.M.,
RA Dodson K., Doup L.B., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Genzhoi K., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
RA Lisko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,
RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Woshrefi A.,
RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Woshrefi A.,
RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Woshrefi A.,
RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Woshrefi A.,
RA Palazzolo M., Pitman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
RA Pales R., Nich M., Woshrefi A., Wang S., Paceleb J.M.,
RA Pales R., Wang S., Pan S., Pales R., Wang S., Yao Q.A.,
RA M
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A Evans C.A., Gocayne J.D., Amanatides P.G., Brandon R.C., Rogers Y.,

Banzon J., An H., Baldwin D., Banzon J., Beeson K.Y., Busam D.A.,

Carlson J.W., Center A., Champe M., Davenport L.B., Dietz S.M.,

Dodson K., Dorsett V., Doup L.E., Doyle C., Dresnek D., Farfan D.,

Ferriera S., Frise B., Galle R.F., Garg N.S., George R.A.,

Gonzalez M., Houck J., Hoskins R.A., Hostin D., Howland T.J.,

A Hogwam C., Jalali M., Kruse D., Li P., Mattei B., Moshrefi A.,

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A McIntosh T.C., Moy M., Murphy B., Nelson C., Nelson K.A., Nunco J.,

Pacleb J., Paragas V., Park S., Patel S., Piffer B.,

Phouanenavong S., Pittman G.S., Puri V., Richards S., Scheeler F.,

Stapleton M., Strong R., Svirskas R., Tector C., Tyler D.,

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SEQUENCE FROM N.A.
Crosby M.A.,
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Celniker S.E., Adams M.D.,
Evans C.A., Gocayne J.D.,
Evans C.A., Holdwin
                                                                             SEQUENCE FROM Adams M.D., Ce
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                                                 Query Match
Best Local S
Matches 18
                                                                                                                   PEAM; PEO0052; Laminin_B; 3.

PÉAM; PEO0053; Laminin_GEF; 2.

PÉAM; PEO0053; Laminin_G; 3.

PÉAM; PEO0057; ldl_recept_a; 2.3

PEAM; PEO0057; ldl_recept_a; 2.3

PEAM; PEO0057; ldl_recept_a; 2.3

PEAM; SMO0180; GEF_Lam; 9.

SMART; SMO0408; IG; 12.

SMART; SMO0408; IG; 12.

SMART; SMO0282; LamG; 3.

SMART; SMO0282; LamG; 3.

SMART; SMO0282; LamG; 3.

SMART; SMO0294; C5 WTASE 1; 1

PROSITE; PS00022; EGF_1; 10.

PROSITE; PS00022; EGF_1; 10.

PROSITE; PS00124; LAMININ_TYPE

PROSITE; PS00124; LAMG, DOMAIN

PROSITE; PS00125; LAMG, DOMAIN

PROSITE; PS00126; LAMG, DOMAIN

PROSITE; PS00126; LAMG, DOMAIN

PROSITE; PS00126; LDLRA_2; 23.

PROSITE; PS00030; RRM RNP_1; 11.

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HSSP; P00740; IEDM.
PlyBase; FBgn0001402; trol.
GO; GO:0003677; F:DNA binding; I
GO; GO:0005108; F:structural mol
GO; GO:0006306; F:DNA methylatlo;
InterPro; IRR001525; CS_DNA_meth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FlyBase;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               InterPro;
InterPro;
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                                                                                         SITE; PS00022; E
SITE; PS01186; E
TIE; PS01186; IG
TIE; PS01248; IG
TIE; PS0125; LAM
TIE; PS0025; LAM
TIE; PS0025; LDLL
E; PS0030; LDLL
E; PS0030; RMM;
1; PS0030; RMM;
1; PS0030; RMM;
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                                                 l Similarity
18; Conserv
SCSLCPCDVSNTESCDLVSG--GYVECRCKARWKGDRCREIDTSPIIE--DPPQICDLS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FROM
                         NCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYI----VVEKKDPKKTCSVS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           IPR008985; ConA like IPR000742; EGF 2. IPR006209; EGF like.
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                                                 19.6%; llarity 30.5%; Conservative
                                                               LAM G L...
; LDLRA 1; 20.
8; LDLRA 2; 23.
30; RRM_RNP_1; 1.
30main; Laminin EGF-like domain.
47782 MW; 47804277D0914E6
                                                                                                                                                   C5 MTASE 1; 1.

BGF 1; 10.

EGF 2; 6.

IG_LIKE; 11.

IG_LIKE; 11.

IGMINININTYPE EGF; 7;

LAMININ DOMAIN; 3.

LDLRA_1; 20.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DNA methylation; IEA
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Laminin_EGF.
Laminin_G.
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Ig-like.
Ig_c2.
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                                                Score 72; DB:
Pred. No. 15;
11; Mismatches
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                                                                                                    47804277D0914E63 CRC64;
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                                                  22;
                                                                         Length 4179;
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                                                 Gaps
 2346
                         60
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Job time : 52.6129 March 9 secs This Page Blank (uspto)

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OM protein - protein search, using sw model
Run on:

March 11, 2004, 17:55:17; Search time 42:3226 Seconds
(without alignments)

319:305 Million cell updates/sec

Title:

US-09-977-406A-58
Sequence:

1 EWCTDNCETCTCYETEISCC......YIVVEKXDPKKTCSVSEWII 64
Scoring table:
BLOSUM62
Gapop 10.0, Gapext 0.5
Searched:
809742 seqs, 21153259 residues

Total number of hits satisfying chosen parameters:
809742 maximum Match 0%
Maximum DB seq length: 2000000000

Maximum DB seq length: 2000000000

Maximum DB seq length: 10
Maximum Match 10%
Listing first 45 summaries

1: (cgn2_6)prodata/1/pubpaa/US07_PUBCOMB.pep:*
5: (cgn2_6)prodata/1/pubpaa/US07_PUBCOMB.pep:*
6: (cgn2_6)prodata/1/pubpaa/US07_PUBCOMB.pep:*
7: (cgn2_6)prodata/1/pubpaa/US07_PUBCOMB.pep:*
8: (cgn2_6)prodata/1/pubpaa/US07_PUBCOMB.pep:*
9: (cgn2_6)prodata/1/pubpaa/US07_PUBCOMB.pep:*
10: (cgn2_6)prodata/1/pubpaa/US08_PUBCOMB.pep:*
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13: (cgn2_6)prodata/1/pubpaa/US08_PUBCOMB.pep:*
14: (cgn2_6)prodata/1/pubpaa/US08_PUBCOMB.pep:*
15: (cgn2_6)prodata/1/pubpaa/US08_PUBCOMB.pep:*
16: (cgn2_6)prodata/1/pubpaa/US08_PUBCOMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

RESULT 2

1.3 58 10 US-09-977-406A-5 7.8 56 10 US-09-977-406A-5 7.8 56 10 US-09-977-406A-5 5.1 54 10 US-09-977-406A-4 5.1 54 10 US-09-977-406A-4 1.8 52 10 US-09-977-406A-4 3.7 53 10 US-09-977-406A-4 8.8 59 10 US-09-977-406A-4 6.1 48 10 US-09-977-406A-4 6.1 48 10 US-09-977-406A-3 6.0 47 10 US-09-977-406A-3 1.0 US-09-977-406A-3	91.3 58 10 US-09-977-406A-52 Sequence 87.8 56 10 US-09-977-406A-51 Sequence 87.8 56 10 US-09-977-406A-50 Sequence 86.4 51 US-09-977-406A-49 Sequence 83.7 53 10 US-09-977-406A-49 Sequence 83.7 53 10 US-09-977-406A-46 Sequence 83.7 53 10 US-09-977-406A-46 Sequence 80.2 51 US-09-977-406A-46 Sequence 97.4 49 10 US-09-977-406A-42 Sequence 97.4 49 10 US-09-977-406A-42 Sequence 97.5 49 11 US-09-977-406A-42 Sequence 97.5 49 10 US-09-977-406A-41 Sequence 97.5 49 10 US-09-977-406A-41 Sequence 97.5 49 10 US-09-977-406A-31 Sequence 97.5 49 10 US-09-977-406A-39 Sequence 97.1 49 10 US-09-977-406A-29 Sequence	UT	44	ω	N	Ъ	0	Φ	80	7	σ	(J	4.	w	N	31	0	. 9	ω	7	6	v	4	ω	N	μ.	0	9	80	7
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### ALIGNMENTS

Qy Db	Qy Db	Query Match Best Local & Matches 64	; LENGTH; ; TYPE: PF ; TYPE: PF ; ORGANISN ; FEATURE; ; OTHER IN US-09-977-40	RESULT 1 US-09-977-4 Sequence Publication GENERAL II FARPLICAN TITLE OF FILE REP CURRENT CURRENT FRIOR AP PRIOR AP PRIOR FII PRIOR FII PRIOR FII SOFTWARE SOFTWARE
61 EWII 64 61 EWII 64	1 EWQTDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKD¢KKTCSVS 60	Query Match. 100.0%; Score 368; DB 10; Length 64; 'Best Local Similarity 100.0%; Pred. No. 9.7e-35; Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	; LENGTH: 64 ; TYPE: PRT ; ORGANISM: Artificial Sequence ; FEATURE: ; FEATURE: ; OTHER INFORMATION: Polypeptide derived from rHuPSP94 sequence (polypeptide analog) US-09-977-406A-58	RESULT 1  US-09-977-406A-58  Sequence 58, Application US/09977406A  Publication No. US20030170220A1  GENERAL INFORMATION: APPLICANT: PROCYON BIOPHARMA INC. TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS FILE REFERENCE: 06509-030-US-03  CURRENT APPLICATION NUMBER: US/09/977,406A  CURRENT FILING DATE: 2001-10-15  PRIOR APPLICATION NUMBER: CA 2,321,256  PRIOR APPLICATION NUMBER: CA 2,355,334  PRIOR APPLICATION NUMBER: CA 2,355,334  PRIOR FILING DATE: 2001-08-20  NUMBER OF SEQ ID NOS: 92  SECTION SE

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; DATABASE ACCESSION NUMBER: GI 131436
; DATABASE ENTRY DATE: 1988-08-01
US-09-977-406A-1
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                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: CA 2,361,736
PRIOR FILING DATE: 2001-11-08
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn version 3.1
SEQ ID NO 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 1, Application US/10291360 Publication No. US20030119744A1 GENERAL INFORMATION:
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PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
NUMBER OF SEQ ID NOS: 92
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CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
                                                                                                                                                                                                                                                                                                                                                     APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PSP-94: Use for Treatment of Hypercalcemia and Bone metastasis
FILE REFERENCE: 06508-051-US-02
CURRENT APPLICATION NUMBER: US/10/291,360
CURRENT FILING DATE: 2002-11-08
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                                                                                                                                   TYPE: PRT
ORGANISM: Homo sapiens
PUBLICATION INFORMATION:
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ORCANISM: Homo sapiens
PUBLICATION INFORMATION:
AUTHORS: Ulveback, M., Lindstrom, C., Weiber, H., Abrahamson, P.A., Lilja, H.,
AUTHORS: Lundwall, A"

AUTHORS: Lundwall, A"

AUTHORS: Lundwall, A"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: PROCYON BIOPHARMA INC
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LENGTH: 94
TYPE: PRT
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DATE: 1989
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                    TITLE: microsemenoprotein, TITLE: non-genital tissues.
                                                TITLE: Molecular cloning of a small TITLE: microsemenoprotein, PSP94 or
                                                                                         AUTHORS: Ulvsback, M., Lindstrom, AUTHORS: Lundwall, A"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            IIILE: Molecular cloning of a small prostate protein, known as beta-
IIILE: microsemenoprotein, PSP94 or beta-inhibin, and demonstration of transcripts
IIILE: non-genital tissues.
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Biochem. Biophys. Res Commun
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                                                                                                                   C., Weiber, H., Abrahamson, P.A., Lilja,
                                                prostate protein, known as beta-
beta-inhibin, and demonstration
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; DATABASE ACCESSION NUMBER: GI 131436
; DATABASE ENTRY DATE: 1988-08-01
US-10-291-360-1
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                                                                           Sequence 2, Application US/10291360
Publication No. US20030119744A1
GEMERAL INFORMATION:
APPLICANT: PROCYON BIOPHARMA INC.
APPLICANT: PROCYON BIOPHARMA INC.
APPLICANT: PROCYON BIOPHARMA INC.
APPLICA DE INVENTION: PSS-94: Use for Treatment of Hypercalcemia
FILLE REFERENCE: 06508-051-US-02
CURRENT APPLICATION NUMBER: US/10/291,360
CURRENT FILING DATE: 2002-11-08
PRIOR APPLICATION NUMBER: CA 2,361,736
PRIOR FILING DATE: 2001-11-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 2, Application US/09977406A Publication No. US20030170220A1 GENERAL INFORMATION:
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Best Local
NUMBER OF SEQ ID NOS: 6
SOFTWARE: Patentin version 3.1
SEQ ID NO 2
LENGTH: 102
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APPLICANT: PROCYON BIOPHARMA INC.

TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS FILE REFERENCE: 06508-030-US-03

CURRENT FILING NUMBER: US/09/977,406A

CURRENT FILING DATE: 2001-10-15

PRIOR APPLICATION NUMBER: CA 2,321,256

PRIOR PILING DATE: 2000-10-16

PRIOR APPLICATION NUMBER: CA 2,355,334

PRIOR APPLICATION NUMBER: CA 2,355,334

PRIOR FILING DATE: 2001-08-20

NUMBER OF SEQ ID NOS: 92

COMMENCE OF SEQ ID NOS: 92
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PAGES: 1310-1315
DATE: 1989
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    OTHER INFORMATION: recombinant human PSP94 (rHuPSP94) produced from yeast
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM: Artificial Sequence
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Pred. No. 1.5e-34;
; Mismatches 0;
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Pred. No. 1.6e-34;
; Mismatches 0;
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TYPE: PRT
ORGANISM: Artificial Sequence

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TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C27
CURRENT FILING DATE: 2001-12-10
CURRENT FILING DATE: 2001-12-10
NUMBER OF SEQ ID NOS: 1011
SOFTWARE: FASSSEQ for Windows Version 3.0
SEQ ID NO 1003
LENGTH: 114
TYPE: 114
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Best Local
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                                                                                                                                                                                                          ORGANISM: Homo sapiens
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                                                                                                                                               Local Similarity
111 EWII 114
                               61
                                                              51
                                                          1 EWQTDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDFKKTCSVS 60
                                                                                                                            64;
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                               EWII 64
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Vedvick, Thomas
Carter, Darrick
Li, Samuel X.
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McNeill, Patricia D.
Houghton, Raymond L.
Vinals de Bassols, Carlota
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Fanger, Gary R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Skeiky, Yasir A.W.
Hepler, William T.
Henderson, Robert A.
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Mitcham, Jennifer L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Wang, Aijun
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                                                                                                                              Conservative
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Conservative (
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                                                                                                                                            100.0%;
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                                                                                                                              0;
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                                                                                                                          Score 368; DB 13;
Pred. No. 1.8e-34;
; Mismatches 0;
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Pred. No. 1.6e-34;
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                                                                                                                                                        Length 114;
                                                                                                                            Indels
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US-10-144-678A-1003

Sequence 1003, Application US/10144678A Publication No. US20030157089A1

GENERAL INFORMATION
APPLICANT: Xu, Jiangchun
APPLICANT: Dillon, Davin C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Mitcham, Jennifer L.

Retter, Marc W.
Stolk, John A.
Day, Craig H.
Vedvick, Thomas S.
Carter, Darrick
Li, Samuel X.

Jiang, Yuqiu Henderson, Rob Kalos, Michael

Robert A. hael D.

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; ORGANISM: Homo sapiens
US-10-205-823-271
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US-10-205-823-271
                                                                                                                                                     Query Match
Best Local S
Matches 64
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                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQ ID
                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION NUMBER: 60/362,158 PRIOR FILING DATE: 2002-03-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: 60/307,982
PRIOR FILING DATE: 2001-07-25
PRIOR APPLICATION NUMBER: 60/314,356
PRIOR FILING DATE: 2001-08-22
PRIOR APPLICATION NUMBER: 60/325,020
PRIOR FILING DATE: 2001-09-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION NUMBER: 60/341,746
PRIOR FILING DATE: 2001-12-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILE REFERENCE: MRI-044
CURRENT APPLICATION NUMBER: US/10/205,823
CURRENT FILING DATE: 2002-07-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Anderson, Dustin
TITLE OF INVENTION: NOVEL GENES,
TITLE OF INVENTION: THERAPY OF I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Schlegel, Robert
                                                                                                                                                                                                                                                                                          LENGTH:
111 EWII 114
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                                     61 EWII 64
                                                                          51 EWQTDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS 110
                                                                                                                                                       64;
                                                                                                                                                                          Similarity
                                                                                                                EWOTDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS 60
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Zhao, Xumei
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Gorbatcheva, Bella
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Glatt, Karen
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Endege, Wilson O.
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                                                                                                                                                                        100.0%; Score 368; DB 14; 100.0%; Pred. No. 1.8e-34;
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                                                                                                                                                       Mismatches
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                 RESULT 10
US-10-291-172-236
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APPLICANT: Kalos, Michael D.
APPLICANT: Kalos, Michael D.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C29
CURRENT APPLICATION NUMBER: US/10/294,025
CURRENT FILING DATE: 2002-11-12
NUMBER OF SEQ ID NOS: 1038
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID: NO 1003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 1003, Application US/10294025 Publication No. US20030185830A1
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Best Local
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CURRENT APPLICATION NUMBER: US/10/144,678A
CURRENT FILING DATE: 2002-08-12
NUMBER OF SEQ ID NOS: 1033
SOFTWARE: FASISEQ for Windows Version 3.0
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ORGANISM: Homo sapiens
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                                                                                                                                                                                                                                                                                                                              ENGTH: 114
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                                                                                                                61 EWII 64
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                                                                                                                                                                                                                 64;
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Houghton, Raymond L.
Vinals y de Bassols, (
Foy. Teresa
                                                                                                                                               EWQTDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS 110
                                                                                 EWII 114
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Hepler, William T.
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                                                                                                                                                                                                             100.0%; ilarity 100.0%; Conservative 0
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Pred. No. 1.8e-34;
                                                                                                                                                                                                               Score 368; DB 14;
Pred. No. 1.8e-34;
; Mismatches 0;
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                                                                                                                                                                               ; TYPE: PRT; ORGANISM: Homo sapiens US-09-925-300-1027
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US-10-291-172-236
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US-09-925-300-1027
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Best Local S
Matches 64
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APPLICANT: Craig Rosen, APPLICANT: Steve Ruben
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQ ID NO 236
LENGTH: 114
                                                                                                                                                                                                                                  SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1027
LENGTH: 132
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                                                                                                             Matches
                                                                                                                              Query Match
Best Local
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PRIOR FILING DATE: 2000-05-19
PRIOR APPLICATION NUMBER: 09/1
PRIOR FILING DATE: 2000-03-07
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PRIOR APPLICATION NUMBER: 09/616,847
PRIOR FILING DATE: 2000-07-14
PRIOR APPLICATION NUMBER: 09/596,193
PRIOR FILING DATE: 2000-06-17
PRIOR FILING DATE: 2000-06-17
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TITLE OF INVENTION: NO. U.
FILE REFERENCE: 21272-045
                                                                                                                                                                                                                                                                                       CURRENT APPLICATION NUMBER: US/09/925,300
CURRENT FILING DATE: 2001-08-10
PRIOR APPLICATION NUMBER: PCT/US00/05986
PRIOR FILING DATE: 2000-03-08
PRIOR APPLICATION NUMBER: 60/124,270
PRIOR FILING DATE: 1999-03-12
NUMBER OF SEQ ID NOS: 1890
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR FILING DATE: 2000-10-20 PRIOR APPLICATION NUMBER: 09/665,363
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                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies FILE REFERENCE: PA101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     111 EWII
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     61 EWII 64
                                       69
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                                                                     1 EWQTDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS
                                                                                                             64:
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                                     EWQTDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS
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ilarity 100.0%;
Conservative 0
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Pred. No. 1.8e-34;
                                                                                                             Score 368; DB y;
Pred. No. 2.1e-34;
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                                                                                                                                                 Length 132;
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EWII 132

3-09-977-406A-57 Sequence 57, Application US/09977406A Publication NC US20030170220A1

GENERAL INFORMATION:

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                                                                                                                                                                                              US-09-977-406A-56
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Publication No. US20030170220A1
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                                                                                                                                                                                                                                                                                                                                                                                                           FILE REFERENCE: 06508-030-US-03
CURRENT APPLICATION NUMBER: US/99/977,406A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
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CURRENT FILING DATE: 2001-10-15
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND
FILE REFERENCE: 06508-030-US-03
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PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
                                                                                                                                                                                                                                                                                                                                    SOFTWARE: PatentIn version 3.1
                                                                                                                                                                                                                                                                                                                                                       PRIOR FILING DATE: 2001-08-20 NUMBER OF SEQ ID NOS: 92
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
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ORGANISM: Artificial Sequence
                                                                                                                                                                                                              OTHER INFORMATION: Polypeptide derived from rHuPSP94 sequence (polypeptide analog)
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LENGTH: 62
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0; Mismatches 0;
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Pred. No. 2.7e-34;
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US-09-977-406A-54
                                                                                                                                                                                                                                                         APPLICANT: PROCYON BIOPHARMA INC.
FILE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION UNMBER: CA 2,321,256
PRIOR APPLICATION UNMBER: CA 2,321,256
PRIOR APPLICATION UNMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
NUMBER OF SEQ ID NOS: 92
SOFTWARE: PATENTIN VERSION 3.1
SEQ ID NO 54
LENGTH: 60
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Best Local S
Matches 60
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LENGTH: 61
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR PILING DATE: 2000-10-16
PRIOR PILING DATE: 2001-08-20
PRIOR FILING DATE: 2001-08-20
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Local Similarity 100.0%; Pred. No. 1.3e-32;
es 61; Conservative 0; Mismatches 0;
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Search completed: March 11, 2004, 18:07:56 Job time: 43.3226 secs

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Scoring table: BLOSUM62 , Gapext 0.5
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Maximum Match 100%
Listing first 45 summaries
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Copyright (c) 1993 - 2004 Compugen Ltd.
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES	

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	Q09538 caenorhabdi	Q09538	ເກ	429	51.5	50	12
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-	Q8mm07 caenorhabdi	Q8MM07	ហ	960	58.8	57	ω
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# ALIGNMENTS

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Query Match 58.8%; Score 57; DB 5; Length 898; Best Local Similarity 61.5%; Pred. No. 0.52;	PROSITE; PS50184; VMFC 2; 2. SEQUENCE 898 AA; 98308 MW; F9686C10837AF35C CRC64;	PS01208;	; SM00214	PF00093;	N	IPR001007;		GO. GO.OOOAABAG. Escapting protesse inhibitor activity: IEA.	EMBL; ALUZIA/8; CAU44089:1; CUINDU.	Z71178; CAD44089.1; -	ce 282:20	investigating biology.";	"Genome sequence of the nematode C.elegans: A platform for		ഹ	SEQUENCE FROM N.A.	[2]	$^{\circ}$	A.A.;	SEQUENCE FROM N.A.	[1]	NCBI_TaxID=6239;	Rhabditidae; Peloderinae; Caenorhabditis.	Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidea;	·	B0024.14 OR B0024.14D.	B0024.14d protein.	(TrEMBLrel.	Last	(TrEMBLrel. 22, Created)		ICGZ DBPET.TMTNARY: DRT: 898 AA.	NULT 1 ·

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01-OCT-2002 (TrEMBLrel. 2
01-OCT-2003 (TrEMBLrel. 2
01-OCT-2003 (TrEMBLrel. 2
B0024 14b protein.
B0024.14 OR B0024.14B.
Caenorhabditis elegans.
Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida;
Rhabditidae; Peloderinae; Caenorhabditis.
NCBI_TaxID=6239;
                                                                                                                                                                                                                                                                                                                                                                                               SMART; SM00214; VWC; 6.
SMART; SM00214; VWC; 6.
PROSITE; PS01208; VWFC 1; 6.
PROSITE; PS50184; VWFC 2; 2.
SEQUENCE 909 AA; 99832 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Submitted (JAN-1998) to the EMBL/GenBank/DDBJ
EMBL; Z71178; CAA94886.2; -
EMBL; AL021478; CAA94886.2; JOINED.
EMBL; AL021478; CAC35857.1; -
EMBL; Z71179; CAC35857.1; JOINED.
PIR; T18649; T18649.
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01-JUN-2001 (TrEMBLrel.
01-JUN-2003 (TrEMBLrel.
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InterPro; IPR001007; VWF_C.
Pfam; PF02822; Antistasin; 3.
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MEDLINE=99069613; PubMed=9851916;
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Rhabditidae; Peloderinae;
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Science 282:2012-2018(1998).
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GO:0004867; F:
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8; Conserv
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Caenorhabditis.
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Last
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Pred. No. 0.53
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annotation update)
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Best Local S
Matches 8
                EMBL; AF323732; AAK15297.1;
GO; GO:0005576; C:extracellular; IEA.
GO; GO:0015070; F:toxin activity; IEA.
GO; GO:0009405; P:pathogenesis; IEA.
InterPro; IPR003571; Snake_toxin.
InterPro; IPR003571; Snake_toxin.
InterPro; IPR003571; UFL Cysrich.
InterPro; IPR0031846; VWF_D.
Pfam; PF00094; VWd; 3.
SMART; SM00216; VWD; 2.
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EMBL; Z71178; CAD44087.1; JOI

EMBL; Z71181; CAD44087.1; JOI

EMBL; Z71181; CAD44140.1; -.

EMBL; Z71178; CAD44140.1; JOI

MOZMPep; B0024.14b; CE3127.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 0985U7;
01-JUN-2001
01-JUN-2001
01-OCT-2003
                                                                                                                                                                       MEDIJNE=21264567; PubMed=11279178;
Jones I., Lindberg C., Jakobsson S., Hellqvist A., F
Borg B., Olsson P.E.;
"Molecular cloning and characterization of spiggin.
"egulated extraorganismal adhesive with structural s
willebrand factor-related proteins.";
J. Biol. Chem. 276:17857-17863 (2001).
                                                                                                                                                                                                                                                                                                                                              Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei; Acanthomorpha; Acanthopterygii; Percomorpha; Gasterosteiformes; Gasterosteidae; Gasterosteus.
                                                                                                                                                                                                                                                                                                                                                                                                               Spiggin alpha.
Gasterosteus aculeatus (three spined stickleback).
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PROSITE; PSS01208; VWFC_1; 6.
PROSITE; PSS0184; VWFC_2; 2.
SEQUENCE 960 AA; 104823 MW;
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SMART; SM00214; VWC; 8.
BDCCTTT
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GG; GG:0005576; F:insqlin-like growth factor binding;
GG; GG:0004867; F:serine protease inhibitor activity;
GG; GG:0001558; P:regulation of cell growth; IEA.
InterPro; IPR004694; Antistasin.
InterPro; IPR00467; Insl gro_fac_pr.
InterPro; IPR001007; VWF_C.
                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                               NCBI_TaxID=69293;
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MEDLINE=99069613; PubMed=9851916;
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SEQUENCE FROM N.A.
MCMUTTAY A.A.;
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Science 282:2012-2018(1998).
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Mismatches
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similarities
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Matches 8
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Q26637;
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MEDITIM=96096772; PubMed=8529669;

Exposito J.Y., Boute N., Deleage G., Ga

"Characterization of two genes coding f

motif of the amino-terminal propeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Strongylocentrotus purpuratus (Purple sea urchin).
Eukaryota; Metazoa; Echinodermata; Eleutherozoa; Echinozoa;
Echinoidea; Euechinoidea; Echinacea; Echinoida; Strongylocentrotidae;
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                                                                                                                                                                                                                                                                                                         01-OCT-2000 (TrEMBLrel.
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NCBI_TaxID=7668;
                                                                                                                                                      Eukaryota; Metazoa; (
Amphibia; Batrachia;
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SMART; SM00214; VWC; 1
    SEQUENCE FROM N.A
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                                                                                                                                                                                                                                   Xenopus laevis (African clawed
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II; X89801; CAA61928.1; 
IL; X89801; CAA61928.1; 
IL; X89803; CAA61928.1; 
IL; X89803; CAA61928.1; 
IL; X89804; CAA61928.1; 
IL; X89805; 
IL
                                                                 _TaxID=8355;
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1376 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         234:59-65(1995).
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                                                                                                                                                                                           Chordata;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      58.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        151182 MW; AF134036781FAAC6 CRC64;
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Last annotation update)
(Fragment).
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1; Mismatches
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                                                                                                                                                                                                                                                                                                         Created)
Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 54; DB
Pred. No. 2.4;
1; Mismatches
                                                                                                                                                              Mesobatrachia;
                                                                                                                                                                                                   Craniata;
                                                                                                                                                                                                                               frog)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2327
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g for a similar fou
de of a sea urchin
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0.77;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 5;
                                                                                                                                                          Vertebrata; I
ia; Pipoidea;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ā
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in fibrillar
                                                                                                                                                                                                   Euteleostomi;
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RESULT 7
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DRREAD RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RANGER RA
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Matches
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Pfam; PF00093; vwc; 22.
Pfam; PF00094; vwd; 1.
SMART; SM00210; TSPN; 1.
SMART; SM00214; VWC; 27.
SMART; SM00216; VWD; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Q966K0
Q966K0;
01-DEC-2001
01-DEC-2001
01-OCT-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PROSITE;
PROSITE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     InterPro, IPR001846; WF D.
InterPro, IPR002919; TIL Cysrich.
InterPro, IPR0013129; TSEN.
InterPro, IPR001007; WWF C.
InterPro, IPR001846; WF D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EMBL; AB026192; BAA95483.1; -. HSSP; P56682; 1CCV.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE=20266358;
Matsui M., Mizusel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TISSUE=Embryonic floor plate;
MEDLINE=20266358; PubMed=10779551;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.
STRAIN=Bristol N2;
MEDLINE=99069613; PubMed=9851916;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GO; GO:0005198; F:structural mole
GO; GO:0007155; P:cell adhesion;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             HSSP; P56682;
                                                                                                                                                                                                                                                      "The sequence of C. submitted (MAR-1999)
                                                                                                                                                                                                                                                                                                                                                                                         "Genome sequence of the nematode C. elegans: a platform investigating biology. The C. elegans Sequencing Consort Science 282:2012-2018(1998).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Caenorhabditis elegans
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Hypothetical
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NCBI_TaxID=6239;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Rhabditidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               F35B3.1
                                                                                                                                                                                                                                                                                                  Latreil P.;
                                                                                                                                                                                                                                                                                                                         STRAIN=Bristol N2;
                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.
                                                                                                                                                           Waterston
                                                                                                                                                                                   STRAIN=Bristol N2;
                                                                                                                                                                                                          SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   None;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        451
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7; Conserva
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PS50184;
2327 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WRKDTCTTCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WOTDNCETCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (TrEMBLrel. 19, Created)
(TrEMBLrel. 19, Last sequence update)
(TrEMBLrel. 25, Last annotation update)
l protein F35B3.1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Peloderinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; EGF 2; 1.
; VWFC 1; 20.
; VWFC 2; 19.
                                                                                                                                                                                                                                                      elegans
) to the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Nematoda; Chromadorea; rinae; Caenorhabditis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       54.6%;
63.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        461
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sion; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 53; DB:
Pred. No. 5.9;
1; Mismatches
                                                                                                                                                                                                                                                        cosmid F35B3.";
EMBL/GenBank/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0293109329209983 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         activity; IEA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 13; Length 2327;
5.9;
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                                                                                                                                                                                                                                                             databases.
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"Direct Submission."; Submitted (JUN-2001) to the EMBL/GenBank/DDBJ databases. EMBL, AC006633; AAK68372.1; -... WormPep; F35B3.1; CE07168. GO; GO:0004197; F:cysteine-type endopeptidase activity; GO; GO:0004221; F:ubiquitin thiolesterase activity; IEA. GO; GO:0006508; P:proteolysis and peptidolysis; IEA.

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RX MEDLINE-22380257; PubMed=12477932;

RS Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,

RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Heich F.,

RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

RA Diatchenko L., Marusina K., Benaldo M.F., Casavant T.L., Scheetz T.E.,

RA Scapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

RA Scapleton M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

RA Brownstein M.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Guy L.J., Hulyk S.W.,

RA Hishards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

RA Willalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

RA Wilting M., Madan A., Young A.C., Shevchanko Y., Bouffard G.G.,

Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,

RA Jones S. T. Marra M.A., A., Malaka U., Smailus D.E., Schnerch A., Schein J.E.,

Jones S. T. Marra M.A., A., Malaka U., Smailus D.E., Schnerch A., Schein J.E.,

RA Jones S. T. Marra M.A., Malaka U., Smailus D.E., Schnerch A., Schein J.E.,
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Best Local S
Matches 8
    Query
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Q7SY84;
01-OCT-2003
                                                                          TISSUE-Whole;
Klein S., Strausberg R.;
Klein S., Strausberg R.;
Submitted (JUL-2003) to the
EMBL; BC054970; AAH54970.1;
                                            Hypothetical protein. SEQUENCE 496 AA; 54843 MW;
                                                                                                                                                                             SEQUENCE FROM N.A.
                                                                                                                                                                                                                          Proc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GO; GO:0006511; P:ubiquitin-dependent protein catabolism; InterPro; IPR001394; Peptidase C19. InterPro; IPR000169; SHprot_acsite.
Pfam; PF00443; UCH; 1
                                                                                                                                                                                                                                                                                          Jones S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Klein S.L., St
Richardson P.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Hypothetical protein.

Kenopus laevis (African clawed frog).

Sukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidea; Pipidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PROSITE; PS00639; THIOL PROTEASE HIS; 1.
PROSITE; PS50235; UCH 2-3; 1.
SEQUENCE 321 AA; 36834 MW; A50612999
                                                                                                                                                                                                                                                               Jones S.J., Marra M.A.; "Generation and initial analysis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDLINE=22341132; PubMed=12454917;
Klein S.L., Strausberg R.L., Wagner L.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             nitiative."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Genetic and genomic tools for Xenopus research: The NIH Xenopus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A.
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                                                                                                                                                                                                                       ouse cDNA sequences.",
Natl. Acad. Sci. U.S.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       . Similarity
8; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WEHDGCENTTCRET 203
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  53.6%;
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                                                                                                             EMBL/GenBank/DDBJ
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Last annotation update)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 52;
Pred. No.
    Score
                                                                                                                                                                                                                       99:16899-16903 (2002)
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                                              E4FD2F07CB7EF51B CRC64;
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  DB
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                                                                                                                                                                                                                                                               than 15,000
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Length 496;
                                                                                                                                                                                                                                                            full-length human
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Best Local S
Matches 7
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01-MAR-2003
01-MAR-2003
01-OCT-2003
                  Q7TMT3;
  01-OCT-2003
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Pfam;
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InterPro;
                                                                                                                                                                                                                                                                                                                                SEQUENCE
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                                                                                                                                                    333
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                                                                                                                                                                                                                                       Similarity 7; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PR01705;
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Best Local Similarity 58. Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SMART; SM00181; EGF; 3.
SMART; SM00179; EGF CA; 2.
SMART; SM00209; TSPI; 3.
SMART; SM00200; TSPN; 1.
SMART; SM00214; VWC; 1.
SMART; SM00214; VWC; 1.
PROSITE; PS00186; EGF 2; 1.
PROSITE; PS00186; PSF0; TSPI; 3.
PROSITE; PS00184; VWFC 1; 1.
PROSITE; PS0184; VWFC 2; 1.
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Eukaryota; Metazoa; C.
Mammalia; Eutheria; R.
NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GO; GO:0005509; F:calcium io
GO; GO:0005198; F:structural
GO; GO:0007155; P:cell adhes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Nagaraja R.;
Nagaraja R.;
"Genomic Sequence Analysis in the Mouse t-complex Region.";
"Genomic Sequence Analysis in the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STRAIN=12986/SvEvTac;
Brathwaite M., Waeltz
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InterPro; IPR006209; EGF_like.
InterPro; IPR006210; IEGF.
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2; tsp_3; 13.
1; vwc; 1
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(TrEMBLrel. 25,
                                                                 PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                 Conservative
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Rodentia;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MW;
   Created
                                                                                                                                                                                                                                                                                                                                                                             Score 52; DB
Pred. No. 4.4;
1; Mismatches
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Last annotation update)
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1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Craniata; Vertebrata; Euteleostomi; Sciurognathi; Muridae; Murinae; Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    020ACD7EB5137B25 CRC64;
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01-OCT-2003 (Tr 01-OCT-2003 (Tr Thrombospondin

(TrEMBLrel. (TrEMBLrel.

25,

Last sequence update)
Last annotation update)

Mus musculus

(Mouse)

Eukaryota; Metazoa; Chordata; Mammalia; Eutheria; Rodentia;

Craniata; Vertebrata; Euteleostomi; Sciurognathi; Muridae; Murinae; Mus.

STRAIN=C3H/He; TISSUE=Mesenchymal Stem MEDLINE=22388257; PubMed=12477932;

Cell;

SEQUENCE FROM N.A.

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SORL PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY 
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RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Schetz T.E.,
RA Stapleton M.J., Uslin T.B., Bonaldo M.F., Casavant T.L., Schetz T.E.,
RA Brownstein M.J., Uslin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Brownstein M.J., Uslin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Raha S.S., McDwan P.J., McKernan K.J., Malek J.A., Gunarathe P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Krzywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E.,
RA Alones S. J. Marra M.A.;
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Best Local
                                                                [1]
SEQUENCE FROM N.A.
SEQUENCE FROM N.A.
KOBAYSSHI M., Kinouchi T., Kamiakito T., Kurra.
Tokue A., Fukayama M., Tanaka A.;
Tokue A., Fukayama M., Tanaka A.;
Tokue A., Fukayama M., Tanaka A.;
Tokue A., Fukayama M., Tanaka A.;
Tokue A., Fukayama M., Tanaka A.;
Tokue A., Fukayama M., Tanaka A.;
Tokue A., Fukayama M., Tanaka A.;
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Tokue A., Fukayama M., Tanaka A.;
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Tokue A., Fukayama M., Tanaka A.;
Tokue A., Fukayama M., Tanaka A.;
Tokue A., 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Q9EQT9;
01-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota; Metazoa; Chordata; Mammalia; Eutheria; Rodentia; NCBL TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Submitted (JUN-2003)
EMBL; BC053702; AAH53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Strausberg R.,
868
868
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-MAR-2001
01-JUN-2003
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LCN7 OR ARG1.
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P; P07688; 1QDQ.
RGI:2117617; Lcn7.
GO:0004197; F:cysteine-type endopeptidase activity; IEA.
GO:0005215; F:transporter activity; IEA.
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1172 AA; 1299
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (TrEMBLrel. 16, (TrEMBLrel. 16, (TrEMBLrel. 24,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ) to the EMBL, 53702.1; -. 129942 MW;
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Last sequence
Last annotation
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Pred. No. 4.4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Craniata; Vertebrata; Euteleostomi; Sciurognathi; Muridae; Murinae; Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        B620EF2B2F5DF0D5 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                annotation
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        update)
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RESULT 12
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Best I
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Best Local
  Matches
                                                                                                                                                                                                Pfam; PF00008; EGF; 2.

Pfam; PF00009; vwc; 1.

SMART; SM00179; EGF CA; 1.

SMART; SM00214; VWC; 1.

PROSITE; PS00010; ASX_HYDRO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Q09538
Q09538;
Q1-NOV-1996
Q1-NOV-1996
Q1-OCT-2003
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InterPro; IPR000566; Lipocln cytFABP.
InterPro; IPR000568; Peptidase C1.
InterPro; IPR000169; Shprot_acsite.
InterPro; IPR001212; Somatomedin B.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SMART; SM00645; Pept
SMART; SM00201; SO; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRINTS; PR00705; PAPAIN. ProDom; PD000158; Peptic
                                                                              EGF-like
SEQUENCE
                                                                                                                                         PROSITE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Metazoa; Nemato
Rhabditidae; Peloderinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PROSITE; PS00213; LIPOCALIN; 1.
PROSITE; PS00639; THIOL_PROTEASE_
SEQUENCE 415 AA; 46848 MW; AC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pfam; PF00112; Peptidase_C1; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        investigating biology.",
Science 282:2012-2018(19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Caenorhabditis elegans.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      F19C6.3 protein.
                                                                                                                                                                                                                                                                                                                                                                                           WormPep; F1906.3; CE01556.
GO; GO:0005509; F:calcium ion binding; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                  PIR; T21113; T21113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDLINE=99069613;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Submitted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A Harris B.R.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "Genome sequence of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NCBI_TaxID=6239;
                                                                                                                                                                                                                                                                                                             InterPro;
                                                                                                                                                                                                                                                                                                                            interPro;
                                                                                                                                                                                                                                                                                                                                                    InterPro;
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                 y Match
Local
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                                                                                                               PS00010; ASX_HYDROXYL; 2. PS01186; EGF_2; 2. PS01187; EGF_CA; 1. PS01208; VWFC_1; 1. PS01208; VWFC_2; 1.
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Similarity
8; Conserv
                                                                              domain
429 /
                                                                                                                                                                                                                                                                                                                                                                                                               F19C6.3; CE01556.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FROM N.A.
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                                                                                                                                                                                                                                                                                                    IPRO00152; Asx_hydroxyl_S
IPRO01881; EGF_Ca.
IPR006209; EGF_like.
IPR001007; VWF_C.
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G (TrEMBLrel.
G (TrEMBLrel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
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    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                        CAA88048.1;
                                                                                ΑĀ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Peptidase_C1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PubMed=9851916;
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                                                                                48653 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            . (8661)8
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MEDLINE=22615905; PubMed=1260
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J. Biol. Chem. 278:17084-17092 (2003).
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GO; GO:0004565; F:beta-galactosidase activity;
GO; GO:0005975; P:carbohydrate metabolism; IEA,
InterPro; IPR003476; Glyco hydro 42.
Pfam; PF02449; Glyco hydro 42; 1.
SEQUENCE 663 AA; 74459 MW; 7ADF7634C5D13BE9
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Eukaryota; Metazoa; Chordata;
Actinopterygii; Neopterygii; T
Cyprinidae; Danio.
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Holmes M.L., Dyall-Smith M.L.;
"Sequence and expression of a halobacterial
Mol. Microbiol. 36:114-122(2000).
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NCBI_TaxID=2254;
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2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*

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Copyright (c) 1993 - 2004 Compugen Ltd.
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Sequence 61, Appli
Sequence 62, Appli
Sequence 14, Appli
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## ALIGNMENTS

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RESULT 2
US-10-291-360-5
; Sequence 5, Application US/10291360
; Publication No. US20030119744A1
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                         NUMBER OF SEQ ID NOS: 92
SOFTWARE: Patentin version 3.1
SEQ ID NO 5
LENGTH: 15
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
CTHER INFORMATION: PCK3145 (polypeptide 31-45)
US-09-977-406A-5
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Publication No. US20030170220A1
GENERAL INFORMATION:
APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
                                                                                                                                                                                                                                                                                                                                                                                                                                         CURRENT APPLICATION NUMBER: US/09/977,406A CURRENT FILING DATE: 2001-10-15 PRIOR APPLICATION NUMBER: CA 2,321,256 PRIOR FILING DATE: 2000-10-16 PRIOR APPLICATION NUMBER: CA 2,355,334 PRIOR FILING DATE: 2001-08-20
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                                                                                                                                                    Sequence 59, Application US/09977406A Publication No. US20030170220A1 GENERAL INFORMATION:
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SEQ ID NO 5
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Best Local :
CURRENT FILLING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
                                                                                        APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
                                                       CURRENT APPLICATION NUMBER: US/09/977,406A CURRENT FILING DATE: 2001-10-15
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PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR APPLICATION NUMBER: CA 2,355,334
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CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
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TITLE OF INVENTION: PSP-94: Use for Treatment of Hypercalcemia and Bone metastasis
FILE REFERENCE: 06508-051-US-02
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ORGANISM: Artificial Sequence
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIC
FILE REFERENCE: 06508-030-US-03
CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
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US-09-977-406A-59
                                                                                                                                                                                                                  Sequence 60, Application US/09977406A
Publication No. US20030170220A1
GENERAL INFORMATION:
APPLICANT: PROCYCON BIOPHARMA INC.
TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
                                     SEQ ID NO 60
LENGTH: 17
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Best Local
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Publication No. US20030170220A1
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CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
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SOFTWARE: PatentIn version
SEQ ID NO 59
LENGTH: 16
                                                                          SOFTWARE:
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NUMBER OF SEQ ID NOS: 92
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ORGANISM: Artificial Sequence
DRGANISM: Artificial Sequence
                     TYPE: PRT
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Pred. No. 1e-06;
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RESULT 7
US-09-977-406A-12
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SOFTWARE: Patentin version 3.1
SEQ ID NO 61
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Best Local
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PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
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PRIOR FILING DATE: 2000-10-16
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CURRENT FILING DATE: 2001-10-15
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
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                                                                                                           OTHER INFORMATION: Polypeptide derived from rHuPSP94 sequence (polypeptide analog)
                                                                                                                               FEATURE:
                                                                                                                                          ORGANISM: Artificial Sequence
                                                                                                                                                                      LENGTH: 18
TYPE: PRT
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ORGANISM: Artificial Sequence
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               y Match 100.0%; Score 97; DB 10;
Local Similarity 100.0%; Pred. No. 1.1e-06;
hes 15; Conservative 0; Mismatches 0;
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Pred. No. 1.1e-06;
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US-09-977-406A-13
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RESULT 11
US-09-977-406A-14
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Best Local Similarity
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Best Local Similarity
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PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
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PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
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SOFTWARE: PatentIn version 3.1
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                                                                                                                                                                                                                                                                       TYPE: PRT
ORGANISM: Artificial Sequence
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No. US20030170220A1
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OTHER INFORMATION: Polypeptide derived from rHuPSP94 sequence US-09-977-406A-62
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APPLICANT: PROCYCM BIOPHARMA INC.
APPLICANT: PROCYCM BIOPHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION NUMBER: US/09/977,406A CURRENT FILING DATE: 2001-10-15
                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
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CURRENT FILING DATE: 2001-10-15
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Pred. No. 1.1e-06;
                      Score 97; DB 10;
Pred. No. 1.1e-06
Mismatches
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RESULT 13
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US-09-977-406A-63
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Matches 15
                                                                            Sequence 15, Application US/09977406A Publication No. US20030170220A1 GENERAL INFORMATION:
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APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
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SEQ ID NO 63
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GENERAL INFORMATION:
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CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
NUMBER OF SEQ ID NOS: 92
NUMBER OF SEQ ID NOS: 92
SOFTWARE: PatentIn version 3.1
CURRENT APPLICATION NUMBER:
                   TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS FILE REFERENCE: 06508-030-US-03
                                                          APPLICANT: PROCYON BIOPHARMA INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQ ID NOS: 92
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PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
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Pred. No.
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Pred. No.
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1.2e-06;
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                                                                                                                                                          GENERAL INFORMATION:
APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
                                                                                                                                                                                                              Sequence 16, Application US/09977406A
Publication No. US20030170220A1
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                                                PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
                                                                                                      FILE REFERENCE: 06508-030-US-03
CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
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PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
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PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOFTWARE: PatentIn version 3.1
SOFTWARE: PatentIn version 3.1
               PRIOR FILING DATE: 20
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1: /cgn2_6/ptodata/2/pubpaa/USO7_PUBCOMB.pep:*

2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*

3: /cgn2_6/ptodata/2/pubpaa/USO6_NEW_PUB.pep:*

4: /cgn2_6/ptodata/2/pubpaa/USO6_PUBCOMB.pep:*

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5: /cgn2_6/ptodata/2/pubpaa/USO8_NEW_PUB.pep:*

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/cgn2_6/ptodata/2/pubpaa/US09A PUBCOMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result

Result No.	Score	Query Match 1	Query Match Length	DB	ID	cription
1	97	100.0	15	10	US-09-977-406A-5	Sequence 5, Appli
N	97	100.0	15	14	US-10-291-360-5	Sequence 5, Appli
w	97	100.0	16	10	US-09-977-406A-10	e 10
44	97	100.0	16	10	US-09-977-406A-59	Sequence 59, Appl
ហ	97	100.0	17	10	US-09-977-406A-11	11,
6	97	100.0	17	10	US-09-977-406A-60	60,
7	97	100.0	18	10	US-09-977-406A-12	12,
œ	97	100.0	18	5	US-09-977-406A-61	61,
9	97	100.0	19	10	US-09-977-406A-13	13,
10	97	100.0		10	US-09-977-406A-62	~
11	97	100.0		10	US-09-977-406A-14	`
12	97	100.0	20	10	US-09-977-406A-63	Sequence 63, Appl
13	97	100.0	21	10	US-09-977-406A-15	•
14	97	100.0	21	10	US-09-977-406A-64	-
15	97	100.0	22	10	US-09-977-406A-16	Sequence 16, Appl

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36	36	35	ω 5	<u>د</u> 4	34	ω ω	ω ω	32	32	3	31	30	30	30	29	29	28	28	27	27	26	26	25	25	24	24	23	23
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9-977-406A-7	-09-977-406A-3	-09-977-406A-7	9-977-406A-2	-09-977-406A-7	-09-977-406A-2	-977-406A-7	-977-406A-2	-09-977-406A-7	-977-406A-2	-09-977-406A-7	77-406A-2	-09-977-406A-9	-09-977-406A-7	9-977-406A-2	-09-977-406A-7	-09-977-406A-2	9-977-406A-7	9-977-406A-2	-977-406A-7	-09-977-406A-2	-09-977-406A-6	-09-977-406A-2	-09-977-406A-6	-09-977-406A-1	-09-977-406A-6	09-977-406	-09-977-406A-6	-09-977-406A-1
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App:	App]	App	Appl	App	App	Appl	App1	Appl	App1	Appl	Appl	Appl	Appl	Appl	App1	Appl	Appl	Appl	Appl	App1	App	App]	App	App	App	App	Appl	rddw

### ALIGNMENTS

RESULT 1 US-09-977-406A-5

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RESULT 2
US-10-291-360-5
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; OTHER INFORMATION: PCK3145 (polypeptide 31-45)
US-09-977-406A-5
Sequence 5, Application US/10291360 Publication No. US20030119744A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
NUMBER OF SEQ ID NOS: 92
SOFTWARE: PatentIn version 3.1
SEQ ID NO 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 5, Application US/09977406A Publication No. US20030170220A1 GENERAL INFORMATION:
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Best Local
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CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: CA 2,321,256
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
                                                                                                                                                                                                                                                                                                                                             LENGTH: 15
TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                 15;
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                                                                                                                                                                  EWQTDNCETCTCYET 15
                                                                                                                                       EWOTDNOETCTCYET
                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                    100.0%; Score 97; DB 10; 100.0%; Pred. No. 1.2e-06;
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                                                                                                                                                                                                                                                    Length 15;
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RESULT 4
US-09-977-406A-59
US-09-977-406A-59
Publication No. US20030170220A1
GENERAL INFORMATION:
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US-09-977-406A-10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: PatentIn version 3.1
SEQ ID NO 10
LENGTH: 16
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Best Local
CURRENT APPLICATION NUMBER: US/09/977,406A CURRENT FILING DATE: 2001-10-15 PRIOR APPLICATION NUMBER: CA 2,321,256 PRIOR FILING DATE: 2000-10-16 PRIOR APPLICATION NUMBER: CA 2,355,334 PRIOR FILING DATE: 2001-08-20
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Best Local Similarity
                                                                                                                                 APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND
FILE REFERENCE: 06508-030-US-03
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TITLE OF INVENTION: PHARMACOUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
PRIOR FILING DATE: 2001-08-20
NUMBER OF SEQ ID NOS: 92
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CURRENT APPLICATION NUMBER: US/10/291,360
CURRENT FILING DATE: 2002-11-08
PRIOR APPLICATION NUMBER: CA 2,361,736
PRIOR FILING DATE: 2001-11-08
NUMBER OF SEQ ID NOS: 6
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TITLE OF INVENTION: PSP-94: Use for Treatment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    OTHER INFORMATION: Polypeptide derived from rHuPSP94 sequence (polypeptide analog)
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ORGANISM: Artificial Sequence
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100.0%; Pred. No. 1
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Pred. No. 1.3e-06;
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND FILE REFERENCE: 06508-030-US-03
CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR PILING DATE: 2000-10-16
PRIOR PILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
NUMBER OF SEQ ID NOS: 92
SOFTWARE: PATENTIN VERSION 3.1
SEQ ID NO 60
                                                                                                                                                                                                                                                                                                                                                                                  RESULT 6
US-09-977-406A-60
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US-09-977-406A-11
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                                                                                                                                                                                                                                                                                                                    Sequence 60, Application US/09977406A Publication No. US20030170220A1 GENERAL INFORMATION:
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SOFTWARE: Patentin version 3.1
SEQ ID NO 11
LENGTH: 17
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SEQ ID NO 59
LENGTH: 16
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Best Local :
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
                                                                                                                                                                                                                                                                                                     APPLICANT: PROCYON BIOPHARMA INC.
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ORGANISM: Artificial Sequence FEATURE:
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                                        TYPE: PRT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       OTHER INFORMATION: Polypeptide derived from rHuPSP94 sequence
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Conservative C
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Pred. No. 1.3e-06;
Mismatches 0;
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Polypeptide derived from rHuPSP94 sequence (polypeptide analog)

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RESULT 8
US-09-977-406A-61
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SEQ ID NO 12
LENGTH: 18
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Best Local
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               Query Match 100.0%; Score 97; DB 10; Best Local Similarity 100.0%; Pred. No. 1.4e-06; Matches 15; Conservative 0; Mismatches 0;
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Publication No.
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CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
PRIOR FILING DATE: 2000-10-16
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CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
NUMBER OF SEQ ID NOS: 92
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
                                                                                                                                                                                                                    SOFTWARE: PatentIn version 3.1
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                                                                                                                                            TYPE: PRT ORGANISM: Artificial Sequence
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                                                                                                           OTHER INFORMATION: Polypeptide derived from rHuPSP94 sequence
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to. US20030170220A1
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; FEATURE:
; OTHER INFORMATION: Polypeptide derived from rHuPSP94 sequence (polypeptide analog)
US-09-977-406A-62
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APPLICANT: PROCYON BIOPHARMA INC.

APPLICANT: PROCYON BIOPHARMA INC.

TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS FILE REFERENCE: 06508-030-US-03

CURRENT FILING DATE: 2001-10-15

PRIOR APPLICATION NUMBER: CA 2,321,256

PRIOR APPLICATION NUMBER: CA 2,355,334

PRIOR APPLICATION NUMBER: CA 2,355,334

PRIOR PRIOR APPLICATION NUMBER: CA 2,355,334

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SOFTWARE: PatentIn version 3.1
SEQ ID NO 13
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
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ORGANISM: Artificial Sequence
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Pred. No. 1.5e-06;
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Pred. No. 1.5e-06;
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              Sequence 15, Application US/09977406A
Publication No. US20030170220A1
GENERAL INFORMATION:
APPLICANT: PROCYCON BIOPHARMA INC.
TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
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APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING
FILE REFERENCE: 06508-030-US-03
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Publication No. US20030170220A1
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-U50-03
CURRENT APPLICATION NUMBER: US/99/977,406A
CURRENT FILING DATE: 2001-10-15
FRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR PILING DATE: 2000-10-16
PRIOR PILING DATE: 2000-10-16
PRIOR PILING DATE: 2000-08-20
PRIOR FILING DATE: 2001-08-20
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CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
PRIOR FILING DATE: 2001-08-20
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ORGANISM: Artificial Sequence
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NUMBER: US/09/977,406A
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Pred. No.
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US-09-977-406A-64
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Best Local Similarity
Matches 15; Conserv:
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LENGTH: 21
                                                                                                                                                      GENERAL INFORMATION:
APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
                                                                                                                                                                                                               Sequence 16, Application US/09977406A
Publication No. US20030170220A1
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SEQ ID NO 15
LENGTH: 21
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                FILE REFERENCE: 06508-030-US-03
CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
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NUMBER OF SEQ ID NOS: 92
SOFTWARE: PatentIn version 3.1
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
CURRENT FILING DATE: 2001-10-15
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PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
NUMBER OF SEQ ID NOS: 92
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
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Pred. No.
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Page 5
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; SEQ ID NO 16; LENGTH: 22; TYPE; PRT
; ORGANISM: Artificial Sequence; FEATURE:
; OTHER INFORMATION: Polypeptide derived from rHuPSP94 sequence (polypeptide analog)
US-09-977-406A-16

Query Match
Best Local Similarity 100.0%; Score 97; DB 10; Length 22;
Best Local Similarity 100.0%; Pred. No. 1.7e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 EWQTDNCETCTCYET 15
Db 1 EWQTDNCETCTCYET 15
Db 1 EWQTDNCETCTCYET 15
Search completed: March 18, 2004, 06:13:00
Job time: 12.0968 secs
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54, Appl 55, Appl 55, Appl 56, Appl 49, Appl 46, Appl 46, Appl 47, Appl 48, Appl 49, Appl 40, Appl 41, Appl 51, 
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Minimum DB seq length: 0
Maximum DB seq length: 2000000000
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Perfect score:
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Maximum Match 100%
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/ cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB_pep: *
/ cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB_pep: *
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/ cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB_pub. *
/ cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB_pep: *
/ cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB_pep: *
/ cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB_pep: *
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/ cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB_pep: *
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/Ggn2_6/ptodata/2/pubpaa/USO6_NEW_PUB.pep:*
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     Applications
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2 US-10-291-360-2
2 US-10-201-278-236
3 US-10-102-896-1003
4 US-10-205-823-271
4 US-10-205-823-271
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Sequence 58, Appli
Sequence 1, Appli
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Sequence 57, Appl
Sequence 55, Appl
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Publication No. US20030170220A1

GENERAL INFORMATION:
APPLICANT: PROCYON BIODHARMA INC.
ITILE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND FILE REFERENCE: 0508-030-US-03
CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
NUMBER OF SEQ ID NOS: 92
SOFTWARE: Patentin version 3.1
SEQ ID NO 58
LENGTH: 64
TYPE: PRI
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OTHER INFORMATION: Polypeptide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 1, Application US/10291360 Publication No. US20030119744A1 GENERAL INFORMATION:
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CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
                                                                                                                                                                                                                                                                                                                                            APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PSP-94: Use for Treatment of Hypercalcemia and Bone metastasis
FILE REFERENCE: 06508-051-US-02
CURRENT APPLICATION NUMBER: US/10/291,360
CURRENT FILING DATE: 2002-11-08
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PUBLICATION INFORMATION:
AUTHORS: Ulvsback, M., Lindstrom, C., Weiber, H., Abrahamson,
AUTHORS: Lundwall, A"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING
                                                                                                                                                                                                                                                                                                PRIOR APPLICATION NUMBER: CA 2,361,736 PRIOR FILING DATE: 2001-11-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SEQ ID NOS: 92
                                                                                                                                                                                                                                                                             NUMBER OF SEQ ID NOS: 6
                                                                                                                                      PUBLICATION INFORMATION:
TITLE: Molecular cloning of a small prostate protein, TITLE: microsemenoprotein, PSP94 or beta-inhibin, and TITLE: non-genital tissues.
JOURNAL: Biochem. Biophys. Res Commun.
                                                                                                                                                            TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DATABASE ACCESSION NUMBER: GI 131436
DATABASE ENTRY DATE: 1988-08-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE: microsemenoprotein, TITLE: non-genital tissues.
                                                                                        AUTHORS: Ulvsback, M., Lindstrom, C., Weiber, H., Abrahamson, P.A., AUTHORS: Lundwall, A"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PAGES: 1310-1315
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE: Molecular cloning of a small prostate protein, known as beta-TITLE: microsemenoprotein, PSP94 or beta-inhibin, and demonstration of transcripts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DATE: 1989
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Pred. No. 1.9e-34;
); Mismatches 0;
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                                                known as beta-
demonstration
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US-10-291-360-2
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Sequence 2, Application US/10291360

Publication No. US20030119744A1

GENERAL INFORMATION:
APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PSP-94: Use for Treatment of Hypercalcemia and Bone metastasis FILE REFERENCE: 06508-051-05-02

CURRENT APPLICATION UNMBER: US/10/291,360

CURRENT FILING DATE: 2002-11-08

PRIOR APPLICATION UNMBER: CA 2,361,736

PRIOR APPLICATION UNMBER: CA 2,361,736

PRIOR PRILING DATE: 2001-11-08

NUMBER OF SEQ ID NOS: 6

SOFTWARE: Patentin version 3.1

SEQ ID NO 2

LENGTH: 102
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Best Local Similarity
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PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
NUMBER OF SEQ ID NOS: 92
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CURRENT FILING DATE: 2001-10-15
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
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PAGES: 1310-1315
DATE: 1989
DATABASE ACCESSION NUMBER: GI 131436
DATABASE ENTRY DATE: 1988-08-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        OTHER INFORMATION: recombinant human PSP94 (rHuPSP94) produced
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64; Conserv
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ilarity 100.0%;
Conservative 0
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Pred. No. 1.9e-34;
Mismatches 0;
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Pred. No. 2.1e-34;
Mismatches 0;
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NUMBER OF SEQ ID NOS: 752
SEQ ID NO 236
                                                               GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Dillon, Davin C.
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GENERAL INFORMATION:
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Best Local Similarity
                                                                                                                     Sequence 1003, Application US/10012896 Publication No. US20020183251A1
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PRIOR FILING DATE: 2000-09-19
PRIOR APPLICATION NUMBER: 09/616,847
PRIOR FILING DATE: 2000-07-14
PRIOR APPLICATION NUMBER: 09/596,193
PRIOR FILING DATE: 2000-06-17
PRIOR FILING DATE: 2000-06-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CURRENT APPLICATION NUMBER: US/10/221,278
CURRENT FILING DATE: 2002-09-06
PRIOR APPLICATION NUMBER: 09/693,267
PRIOR FILING DATE: 2000-10-20
                                     APPLICANT:
                                                    APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: PRT
ORGANISM: Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT ORGANISM: Artificial Sequence FEATURE:
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Jiang, Yuqiu
Kalos, Michael D.
                               Harlocker, Susan L.
                                                  Mitcham, Jennifer L.
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Conservative 0
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Pred. No. 2.1e-34;
Mismatches 0;
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Pred. No. 2.4e-34;
; Mismatches 0;
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CURRENT FILING DATE: 2001-12-10
NUMBER OF SEQ ID NOS: 1011
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 1003
LENGTH: 114
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APPLICANT: Schlegel, Robert
APPLICANT: Monahan, John E
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Best Local :
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APPLICANT:
                                                                                                         APPLICANT: Anderson, Dustin
TITLE OF INVENTION: MOVEL GENES, COMPOSITIONS, KI
TITLE OF INVENTION: METHODS FOR IDENTIFICATION,
TITLE OF INVENTION: THERAPY OF PROSTATE CANCER
FILE REFERENCE: MRI-044
FULNE REFERENCE: MRI-044
CURRENT APPLICATION NUMBER: US/10/205,823
CURRENT FILING DATE: 2002-07-25
PRIOR APPLICATION NUMBER: 60/307,982
PRIOR FILING DATE: 2001-07-25
PRIOR FILING DATE: 2001-07-25
PRIOR FILING DATE: 2001-07-25
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PRIOR APPLICATION NUMBER: 60/314,356
PRIOR FILING DATE: 2001-08-22
PRIOR APPLICATION NUMBER: 60/325,020
PRIOR FILING DATE: 2001-09-25
PRIOR APPLICATION NUMBER: 60/341,746
PRIOR FILING DATE: 2001-12-12
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APPLICANT: Meagher, Madeleine Joy
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427027
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Gorbatcheva, Bella
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McNeill, Patricia D.
Houghton, Raymond L.
Vinals de Bassols, Carlota
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Hepler, William T.
Henderson, Robert A.
                                                                                                                                                                                                                                                                             Glatt, Kare
Zhao, Xumei
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Glatt, Karen
                                                                                                                                                                                                                                                                                                                                     Kamatkar, Shubhangi
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Endege, Wilson
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Carter, Darrick
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Pred. No. 2.4e-34;
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US-10-144-678A-1003
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                                                                    Matches
                                                                                                                                                                                    NUMBER OF SEQ ID NOS: 1033
SOFTWARE: FRASESEQ for Windows Version 3.0
SEQ ID NO 1003
LENGTH: 114
                                                                                     Query Match
Best Local
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SEQ ID NO 271
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APPLICANT: Dillon, Davin C.
APPLICANT: Micham, Jennifer L.
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CURRENT FILING DATE: 2002-08-12
                                                                                                                                                                                                                                                                                        TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER FILE REFERENCE: 210121.427C28
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PRIOR FILING DATE: 2002-03-05
NUMBER OF SEQ ID NOS: 455
                                                                                                                                                TYPE: PRT
ORGANISM: Homo sapiens
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   51
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Kalos, Michael D.
Fanger, Gary R.
Retter, Marc W.
Retter, John A.
                                                                  Similarity 100 54; Conservative
EWQTDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS 110
                           EWQTDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS 60
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Deng, Ta
                                                                                                                                                                                                                                                                                                                                                                                                          McNeill, Patricia D. Houghton, Raymond L.
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Skeiky, Yasir A. W.
Hepler, William T.
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Vedvick, Thomas S.
Carter, Darrick
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  John
                                                                                                                                                                                                                                                    2002-08-12
                                                                               100.0%; Score 368; DB 14; 100.0%; Pred. No. 2.4e-34;
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Pred. No. 2.4e-34;
; Mismatches 0;
                                                                  Mismatches
                                                                                               Length 114;
                                                                  Indels
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ORGANISM: Homo sapiens
US-10-294-025-1003
                                                                                                              US-10-291-172-236
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 236, Application Ut, Publication No. US200302285; GENERAL INFORMATION:
APPLICANT: Hyseq, Inc. TITLE OF INVENTION: No. US; FILE REFERENCE: 21272-045;
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US-10-291-172-236
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US-10-294-025-1003
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SEQ ID NO 236
                                    Matches
                                                      Query Match
Best Local
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CURRENT FILING DATE: 2002-11-12
NUMBER OF SEQ ID NOS: 1038
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 1003
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Best Local Similarity
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                                                                                                                                                                                                                    PRIOR FILING DATE: 2000-05-19
PRIOR APPLICATION NUMBER: 09/519,705
PRIOR FILING DATE: 2000-03-07
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APPLICANT: Kalos, Michael D.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C29
                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION NUMBER: 09/665,363
PRIOR FILING DATE: 2000-09-19
PRIOR FILING NUMBER: 09/616,847
PRIOR FILING DATE: 2000-07-14
                                                                                                                                                                                                                                                                          PRIOR APPLICATION NUMBER: 09/574,454
                                                                                                                                                                                                                                                                                              PRIOR APPLICATION NUMBER: 09/596,193
                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION NUMBER: 09/693,267
PRIOR FILING DATE: 2000-10-20
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CURRENT FILING DATE: 2000-11-08
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                                                                                                                          TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                 LENGTH:
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                                    64;
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1 EWQTDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS 60
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                                                      Similarity
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                                    Conservative
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                                 100.0%; Score 368; DB 15;
100.0%; Pred. No. 2.4e-34;
200.0%; Mismatches 0;
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Pred. No. 2.4e-34;
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                                                                      Length
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US-09-925-300-1027
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                                                                         US-09-977-406A-57
     Matches
                    Query Match
Best Local
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                                                                                                                                                                                                                             PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
                                                                                                                                                                                                                                                                                               CURRENT APPLICATION NUMBER: US/09/977,406A
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PRIOR FILING DATE: 2000-03-08
PRIOR APPLICATION NUMBER: 60/124,270
PRIOR FILING DATE: 1999-03-12
NUMBER OF SEQ ID NOS: 1890
SOFTWARE: Patentin Ver. 2.0
                                                                                                                                                                                            NUMBER OF SEQ ID NOS: 92
SOFTWARE: PatentIn version 3.1
                                                                                                                                                                                                                                                                                                                                  APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PHARMACEUTICAL PREFARATIONS AND METHODS FOR INHIBITING
FILE REFERENCE: 06508-030-US-03
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                                                                                                                      O ID NO 57
LENGTH: 63
TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                      FEATURE:
OTHER INFORMATION:
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TLE OF INVENTION: Nucleic Acids, Proteins
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o. US20020151681A1
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                    Similarity
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                                                                                    Polypeptide derived from rHuPSP94 sequence (polypeptide analog)
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                    98.9%;
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                    Score 364; DB 10; Pred. No. 3.6e-34;
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Pred. No. 2.8e-34;
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Query Match 94.8 Best Local Similarity 100. Matches 61; Conservative

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94.8%; Score 349; DB 10; 100.0%; Pred. No. 1.8e-32; cive 0; Mismatches 0;

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US-09-977-406A-55
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US-09-977-406A-56
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                                                                            PRIOR FILING DATE: 2001-08-20
NUMBER OF SEQ ID NOS: 92
SOFTWARE: PatentIn version 3...
SEQ ID NO 55
LENGTH: 61
TYPE: PRT
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Publication No. US20030170220A1
GENERAL INFORMATION:
APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
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SOFTWARE: PatentIn version 3.1
SEQ ID NO 56
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                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
                                                                                                                                                                                                                                                                 CURRENT APPLICATION NUMBER: US/09/977,406A CURRENT FILING DATE: 2001-10-15
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CURRENT APPLICATION NUMBER: US/09/977,406A
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
                                                        ORGANISM: Artificial Sequence
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Copyright (c) 1993 - 2004 Compugen Ltd.
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RESULT 2 US-09-977-406A-1

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#### ALIGNMENTS

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; OTHER INFORMATION: Polypeptide derived from rHuPSP94 sequence (polypeptide analog)
US-09-977-406A-88
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Sequence 88, Application US/09977406A
Publication No. US20030170220A1
GENERAL INFORMATION:
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PRIOR FILING DATE: 2001-08-20
NUMBER OF SEQ ID NOS: 92
SOFTWARE: Patentin version 3.1
SEQ ID NO 88
                                                                                        Query Match
Best Local Similarity
Matches 45; Conserv
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
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                                                                                      100.0%; Score 268; DB 10; ilarity 100.0%; Pred. No. 5.9e-27; Conservative 0; Mismatches 0;
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TITLE OF INVENTION: PSP-94: Use for Treatment
FILE REFERENCE: 06508-051-US-02
CURRENT APPLICATION NUMBER: US/10/291,360
CURRENT FILING DATE: 2002-11-08
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NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION NUMBER: CA 2,361,736
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: PRI ORGANISM: Homo sapiens ORGANISM: Homo sapiens PUBLICATION INFORMATION: AUTHORS: Ulvsback, M., Lindstrom, C., AUTHORS: Lundwall, A" AUTHORS: Lundwall, A" TITLE: Molecular cloning of a small print of the same proprotein, PSP94 or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILE REFERENCE: 06508-030-US-03
CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
                                                                                                                                                                                                                                                                        ORGANISM: Homo sapiens PUBLICATION INFORMATION:
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ORGANTON
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DATABASE ACCESSION NUMBER: GI 131436
DATABASE ENTRY DATE: 1988-08-01
                                                                                                                                                                            AUTHORS: Ulvsback, M., Lindstrom, C., Weiber, H., Abrahamson, P.A., Lilja, H., AUTHORS: Lundwall, A"
TITLE: Molecular cloning of a small prostate protein, known as beta-
TITLE: microsemenoprotein, PSP94 or beta-inhibin, and demonstration of transcr
                                             PAGES: 1310-1315
DATE: 1989
                                                                                                                                                         TITLE: microsemenoprotein, TITLE: non-genital tissues.
                                                                                                                                                                                                                                                                                                                        TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DATABASE ACCESSION NUMBER: GI 131436
DATABASE ENTRY DATE: 1988-08-01
                                                                                                                                      JOURNAL: Biochem.
                                                                                                                                                                                                                                                                                                                                           ENGTH: 94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DATE: 1989
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                                                                                                                /OLUME: 164
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ITLE: microsemenoprotein, ITLE: non-genital tissues
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Pred. No. 1.3e-26;
Mismatches 0;
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beta-inhibin, and
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  of Hypercalcemia and
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demonstration
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Query Match

100.0%;

Score 268;

DB 14;

Length 94;

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RESULT 6

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US-10-291-360-2
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                                          Matches
                                                            Query Match
Best Local
                                                                                                                                                                                                                            SEQ ID NO 2
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Best Local :
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                                                                                                                                                                                                                                                                               APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PSP-94: Use for Treatment
FILE REFERENCE: 06508-051-US-02
CURRENT APPLICATION NUMBER: US/10/291,360
CURRENT FILING DATE: 2002-11-08
PRIOR APPLICATION NUMBER: CA 2,361,736
PRIOR PILING DATE: 2001-11-08
                                                                                                                                                                                                                                            NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn version 3.1
                                                                                                                                                                                       LENGTH: 10
TYPE: PRT
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CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
                                                                                                                                                  FEATURE:
                                                                                                                                                                 ORGANISM: Artificial Sequence
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                                                                                                                                  OTHER INFORMATION:
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                                        l Similarity
45; Conser
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SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 45
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                                       100.0%;
ilarity 100.0%;
Conservative 0
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                                                                                                                                    recombinant human PSP94 (rHuPSP94)
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                                     Score 268; DB 14;
Pred. No. 1.5e-26;
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Pred. No. 1.5e-26;
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hes 0;
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                                                                              Length 102;
                                          Indels
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; NUMBER OF SEQ ID NOS: 752
; SEQ ID NO 236
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-221-278-236
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         APPLICANT: Meagher, Madeleine Joy
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C27
CURRENT APPLICATION NUMBER: US/10/012,896
CURRENT FILING DATE: 2001-12-10
NUMBER OF SEQ ID NOS: 1011
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION NUMBER: 09/519,705
PRIOR FILING DATE: 2000-03-07
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PRIOR FILING DATE: 2000-07-14
PRIOR APPLICATION NUMBER: 09/596,193
PRIOR FILING DATE: 2000-06-17
PRIOR APPLICATION NUMBER: 09/574,454
PRIOR FILING DATE: 2000-05-19
PRIOR FILING DATE: 2000-05-19
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CURRENT FILING DATE: 2002-09-06
PRIOR APPLICATION NUMBER: 09/693,267
PRIOR FILING DATE: 2000-10-20
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                                                                                                                                                           Foy, Teresa
Fanger, Gary R.
                                                                                                                                                                                              Hural, John
McNeill, Patricia D.
Houghton, Raymond L.
Vinals de Bassols, Carlota
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Mitcham, Jennifer L.
                                                                                                                                             Wantanabe,
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Hepler, William T.
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Jiang, Yuqıu
Kalos, Michael D.
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                                                                                                                                                                                                                                                                                                                                                                      Carter, Darrick
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o. US20040034208A1
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for Windows Version 3.0
                                                                                                                                                                                                                                                                                                                                                                                        Thomas S
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                                                                                                                                                                                                                                                                           Robert A.
                                                                                                                                             Yoshihiro
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Pred. No. 1.7e-26;
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US-10-144-678A-1003

Sequence 1003, Application US/10144678A Publication No. US20030157089A1 GENERAL INFORMATION:

APPLICANT: Xu, Jiangchun APPLICANT: Dillon, Davin C. APPLICANT: Mitcham, Jennifer L.

Harlocker, Susan L.

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; TYPE: PRT; ORGANISM: Homo sapiens US-10-205-823-271
                                                                                                                                                                                                                                                                                                              TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AN TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESS TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESS FILE REFERENCE: MRI-044

CURRENT APPLICATION NUMBER: US/10/205,823

CURRENT APPLICATION NUMBER: US/10/205,823

CURRENT FILING DATE: 2002-07-25

PRIOR APPLICATION NUMBER: 60/307,982

PRIOR FILING DATE: 2001-07-25

PRIOR FILING DATE: 2001-07-25

PRIOR APPLICATION NUMBER: 60/314,356

PRIOR APPLICATION NUMBER: 60/314,356

PRIOR APPLICATION NUMBER: 60/325,020

PRIOR APPLICATION NUMBER: 60/325,020

PRIOR APPLICATION NUMBER: 60/341,746

PRIOR FILING DATE: 2001-09-25

PRIOR FILING DATE: 2001-12-12

PRIOR APPLICATION NUMBER: 60/362,158

PRIOR FILING DATE: 2001-12-12

PRIOR APPLICATION NUMBER: 60/362,158
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                                                                              Best Loc
Matches
                                                                                                                   Query Match
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Publication No.
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Best Local Similarity
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NUMBER OF SEQ ID NOS: 455
SOFTMARE: FastSEQ for Windows Version 4.0
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TYPE: PF
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                                                                                                                                                                                                                     LENGTH: 114
                                                                                                  Local
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                                                                                 1 Similarity
45; Conserv
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SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 65
                                    SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Monahan, John E.
Endege, Wilson O.
Gannavarapu, Manjula
Gorbatcheva, Bella
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Hoersch, Sebastian
Kamatkar, Shubhangi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Anderson,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Zhao, Xumei
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o, US20030108963A1
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                                                                                 Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Angela M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Dustin
                                                                            100.0%; Score 268; DB 14;
100.0%; Pred. No. 1.7e-26;
tive 0; Mismatches 0;
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Pred. No. 1.7e-26;
); Mismatches 0;
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                                                                                                              Length 114;
                                                                            Indels
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NUMBER OF SEQ ID NOS: 1038
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 1003
LENGTH: 114
TYPE: PRT
ORGANISM: Homo sapiens
US-10-294-025-1003
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US-10-294-025-1003
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                                                              Query Match
Best Local S
Matches 45
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Publication No. US20030185830A1
GENERAL INFORMATION:
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Best Local
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                                                                                                                                                                                                                                         APPLICANT: Xu, Jiangchun
APPLICANT: Stolk, John A.
APPLICANT: Stolk, John A.
APPLICANT: Kalos, Michael D.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427029
CURRENT APPLICATION NUMBER: US/10/294,025
CURRENT FILING DATE: 2002-11-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER FILE REFERENCE: 210121.427028 CURRENT APPLICATION NUMBER: US/10/144,678A CURRENT FILING DATE: 2002-08-12 NUMBER OF SEQ ID NOS: 1033
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
ORGANISM: Homo sapiens
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21
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                                                                                Similarity
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                         SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 45
SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 65
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Watanabe, Yoshihiro
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Carter, Darrick
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Houghton, Raymond L.
Vinals y de Bassols,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      McNeill, Patricia D.
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Hepler, William T.
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Kalos, Michael
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Teresa M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Craig H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        , John
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                                                              100.0%; Score 268; DB 14;
100.0%; Pred. No. 1.7e-26;
htive 0; Mismatches 0;
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; Pred. No. 1.7e-26;
wismatches 0;
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RESULT 11

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CURRENT APPLICATION NUMBER: US/09/925,300
CURRENT FILING DATE: 2001-08-10
PRIOR APPLICATION NUMBER: PCT/US00/05988
PRIOR FILING DATE: 2000-03-08
PRIOR APPLICATION NUMBER: 60/124,270
PRIOR FILING DATE: 1999-03-12
NUMBER DECENTION DESCRIPTION NUMBER: 60/124,270
PRIOR FILING DATE: 1999-03-12
NUMBER DECENTION OF SEQ ID NOS: 1890
SOFTWARE: PATERITIN Ver. 2.0
SEQ ID NO 1027
LENGTH: 132
US-09-977-406A-87; Sequence 87, Application US/09977406A; Publication No. US20030170220A1
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US-09-925-300-1027
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US-10-291-172-236
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CURRENT FILING DATE: 2000-11-08
PRICE APPLICATION NUMBER: 09/693,267
PRICE FILING DATE: 2000-10-20
PRICE APPLICATION NUMBER: 09/665,363
PRICE APPLICATION NUMBER: 09/615,863
PRICE FILING DATE: 2000-09-19
PRICE APPLICATION NUMBER: 09/616,847
PRICE APPLICATION NUMBER: 09/616,847
PRICE FILING DATE: 2000-07-14
PRICE FILING DATE: 2000-07-14
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APPLICANT: Craig Rosen,
APPLICANT: Steve Ruben
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SEQ ID NO 236
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Publication No.
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Best Local
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TITLE OF INVENTION: No. U
FILE REFERENCE: 21272-045
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TITLE OF INVENTION: Nucleic Acids, Proteins
FILE REFERENCE: PA101
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PRIOR FILING DATE: 2000-03-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION NUMBER: 09/596,193
PRIOR FILING DATE: 2000-06-17
PRIOR APPLICATION NUMBER: 09/574,454
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                                                                                                                                                                                              1 SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 45
                                                                                                                                                                                                                                              l Similarity
45; Conserv
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                                                                                                                                                                                                                                                   0
                                                                                                                                                                                                                                                 Score 268; DB 9;
Pred. No. 1.9e-26;
); Mismatches 0;
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GENERAL INFORMATION:
APPLICANT: PROCYON BIOPHARMA INC

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RESULT 15

US-09-977-406A-85

Sequence 85, Application US/09977406A

; Publication NO. US20030170220A1

; GENERAL INFORMATION:

; APPLICANT: PROCYON BIOPHARMA INC.

; TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS

; FILE REFERENCE: 06508-030-US-03

; CURRENT APPLICATION NUMBER: US/09/977,406A

; CURRENT FILING DATE: 2001-10-15

; CURRENT FILING DATE: 2001-10-15

; CURRENT FILING DATE: 2001-10-15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; OTHER INFORMATION: Polypeptide derived from rHuPSP94 sequence (polypeptide analog) US-09-977-406A-86
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; OTHER INFORMATION: Polypeptide derived from rHuPSP94 sequence (polypeptide analog) US-09-977-406A-87
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Best Local S
Matches 44
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SEQ ID NO 87
LENGTH: 44
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: PatentIn version 3.1
SEQ ID NO 86
LENGTH: 43
                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
NUMBER OF SEQ ID NOS: 92
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT
ORGANISM: Artificial Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORGANISM: Artificial Sequence FEATURE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                   43;
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                                                                                                                                                                                                                                                                                                                                         YFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 43
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                                                                                                                                                                                                                                                                                                                                                                                                                       95.1%; 5c.
100.0%; Pr
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100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                              Score 255; DB 10; Length 43; Pred. No. 2.6e-25; O; Mismatches 0; Indels
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Pred. No. 1.9e-26;
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                                                                    Query Match
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Matches 42
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PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
NUMBER OF SEQ ID NOS: 92
SOFTWARE: PALENTIN VERSION 3.1
SEQ ID NO 85
LENGTH: 42
                                                                                                                                                                                                                  TYPE: PRT
                                                                                                                                                                                 FEATURE:
                                                                                                                                                        OTHER INFORMATION: Polypeptide derived from rHuPSP94 sequence (polypeptide analog)
                                                                                                                                                                                               ORGANISM: Artificial Sequence
                              4 FIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 45
                                                                  Similarity 100.
42; Conservative
FIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 42
                                                                                    92.5%;
                                                                                    Score 248; DB 10; Pred. No. 2e-24;
                                                                      Mismatches
                                                                                                       DB 10;
                                                                                                     Length 42;
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Search completed: March 18, 2004, 06:13:01 Job time: 36.2903 secs

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GenCore version 5.1.6 Copyright (c) 1993 - 2004 Compugen Ltd

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Result
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seq length: 2000000000
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US-09-977-406A-11
US-09-977-406A-61
US-09-977-406A-61
US-09-977-406A-61
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US-09-977-406A-62
US-09-977-406A-63
US-09-977-406A-63
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Sequence 10, Appli
Sequence 10, Appl
Sequence 59, Appl
Sequence 60, Appl
Sequence 11, Appl
Sequence 12, Appl
Sequence 61, Appl
Sequence 62, Appl
Sequence 63, Appl
Sequence 14, Appl
Sequence 14, Appl
Sequence 15, Appl
Sequence 15, Appl
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-09-977-406A-7	-09-977-406A-3	-09-977-406A-7	-09-977-406A-2	-09-977-406A-7	-09-977-406A-2	-09-977-406A-7	-09-977-406A-2	-09-977-406A-7	-09-977-406A-2	-09-977-406A-7	-09-977-406A-2	-09-977-406A-9	-09-977-406A-7	US-09-977-406A-24	-09-977-406A-7	-09-977-406A-2	-09-977-406A-7	-09-977-406A-2	US-09-977-406A-70	-09-977-406A-2	-09-977-406A-6	9-977-406A-2	06A-6	9-977-406A-1	US-09-977-406A-67	9-977-406A-1	1-09-977-406A-6	US-09-977-406A-17	9-977-406A-6
equence 7	equence 3	equence 7	quence 2	equence 7	quence 2	equence 7	equence 2	equence 7	quence 2	equence 7	ence 2	nce 9	е 7	ence 2	equence 7	Ф Ф	e 7	ice 2	equence 7	equence 2	equence 6	equence 2	nce 6	ence 1	equence	nce 1	equence 6	e H	Sequence 65,
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### ALIGNMENTS

US-09-977-406A-5

RESULT 1

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Sequence 5, Application US/09977406A

PUDDICATION NO. US20030170220A1

GENERAL INFORMATION:
APPLICANT: PROCYON BIOPHARMA INC.
ITITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR
FILE REFERENCE: 06508-030-US-03

CURRENT APPLICATION NUMBER: US/09/977,406A

CURRENT FILING DATE: 2001-10-15

PRIOR APPLICATION NUMBER: CA 2,321,256

PRIOR APPLICATION NUMBER: CA 2,321,256

PRIOR APPLICATION NUMBER: CA 2,355,334

PRIOR APPLICATION NUMBER: CA 2,355,334

PRIOR APPLICATION NUMBER: CA 2,355,334
RESULT 2
US-10-291-360-5
US-10-291-360-5
; Sequence 5, Application US/10291360
; Publication No. US20030119744A1
; GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQ ID NOS: 92
SOFTWARE: PatentIn version 3.1
SEQ ID NO 5
LENGTH: 15
                                                                                                                                                                                                                                           Query Match
Best Local Similarity
Matches 15; Conserv
                                                                                                                                                                                                                                                                                                                                                               LENGTH: 15
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                                                                                                                                                                  OTHER INFORMATION: PCK3145 (polypeptide 31-45)
                                                                                                                                                                                            1 EWQTDNCETCTCYET
                                                                                                                                                                EWQTDNCETCTCYET
                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                              100.0%; Score 15; DB 10; 100.0%; Pred. No. 1.8e-10;
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US-09-977-406A-59
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US-09-977-406A-10
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                                                                                                                                                    Sequence 59, Application US/09977406A Publication No. US20030170220A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                         Matches
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Best Local
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Publication No. US20030170220A1
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Best Local :
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                                                     APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-08-03
CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
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                PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS
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CURRENT FILING DATE: 2002-11-08
PRIOR APPLICATION NUMBER: CA 2,361,736
PRIOR FILING DATE: 2001-11-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION NUMBER: CA 2,355,334 PRIOR FILING DATE: 2001-08-20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: CA 2,321,256
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TITLE OF INVENTION: PSP_94: Use for Treatment of Hypercalcemia and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM: Artificial Sequence
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APPLICATION NUMBER: CA 2,355,334
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Pred. No.
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                                     SOFTWARE: PatentIn version 3.1 SEQ ID NO 60 LENGTH: 17
                                                                                                                                                                                                                                                                              Sequence 60, Application US/09977406A Publication No. US20030170220A1 GENERAL INFORMATION:
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Publication No.
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
NUMBER OF SEQ ID NOS: 92
SOFTWARE: PAFATT
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                                                                                         NUMBER OF SEQ
                                                                                                         PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
                                                                                                                                                                                 APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS
FILE REFERENCE: 06508-033-045-03
CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
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EQ ID NO 11
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PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQ ID NOS: 92
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ORGANISM: Artificial Sequence
FEATURE:
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RGANISM: Artificial Sequence
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10. US20030170220A1
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                                                                           US-09-977-406A-61
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Publication No.
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                                                                                                                                                                     SEQ ID NO 61
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                                                                                                                                                                             CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
NUMBER OF SEQ ID NOS: 92
SOFTWARE: PatentIn version 3.1
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PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
NUMBER OF SEQ ID NOS: 92
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING
FILE REFERENCE: 06508-030-US-03
CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
                                                                                                                                                                                                                                                                                                        APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING
FILE REFERENCE: 06508-030-US-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: PatentIn version 3.1
                                                                                        FEATURE:
OTHER INFORMATION:
                                                                                                               ORGANISM: Artificial Sequence
                                                                                                                                       TYPE: PRT
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No. US20030170220A1
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Pred. No. 2e-10;
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; OTHER INFORMATION: Polypeptide derived from rHuPSP94 sequence US-09-977-406A-62
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                                                                                                                                                                                                                                                                                                                                                                                      CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS
FILE REFERENCE: 06508-030-US-03
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                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION NUMBER: CA 2,355,334
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LENGTH: 19
TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                          TYPE: PRT ORGANISM: Artificial Sequence
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                                       1 EWOTDNCETCTCYET
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No. US20030170220A1
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                                                                   Sequence 15, Application US/09977406A Publication No. US20030170220A1 GENERAL INFORMATION:
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Best Local
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                 APPLICANT: PROCYON BIOPHARMA INC. TITLE OF INVENTION: PHARMACEUTICA FILE REFERENCE: 06508-030-US-03
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CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
CURRENT APPLICATION NUMBER: US/09/977,406A
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SOFTWARE: PatentIn version 3.1
SEQ ID NO 63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR FILING DATE:
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
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             ION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS 05508-030-US-03
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Pred. No. 2.3
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Pred. No.
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US-09-977-406A-64
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US-09-977-406A-16
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                                                                                                                                                                                            Sequence 16, Application US/09977406A
Publication No. US20030170220A1
GENERAL INFORMATION:
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Best Local Similarity
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PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
NUMBER OF SEQ ID NOS: 92
                                                                                               FILE REFERENCE: 06508-030-US-03
CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
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PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
PRIOR FILING DATE: 2001-08-20
NUMBER OF SEQ ID NOS: 92
                                                            PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
                                                                                                                                                         APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION NUMBER: CA 2,355,334 PRIOR FILING DATE: 2001-08-20
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILE REFERENCE: 06508-030-US-03
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OFTWARE: PatentIn version 3.1

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GenCore version 5.1.6 Copyright (c) 1993 - 2004 Compugen Ltd.

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Database :
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

No.	Score	Query	Query Match Length DB	DB	ID	Description
1	64	100.0	64	010	US-09-977-406A-58	Sequence 58, Appl
2	54	100.0	94	10	US-09-977-406A-1	1, 7
ω	64	100.0	94	14	US-10-291-360-1	<u>س</u> ر '
4	64	100.0	102	10	US-09-977-406A-2	2
5	64	100.0	102	14	US-10-291-360-2	N
σı	64	100.0	114	12	US-10-221-278-236	Sequence 236, App
7	64	100.0	114	13	US-10-012-896-1003	1003
æ	64	100.0	114	14	US-10-205-823-271	Sequence 271, App
φ	64	100.0	114	14	US-10-144-678A-1003	1003
10	64	100.0	114	14	US-10-294-025-1003	Sequence 1003, Ap
11	64	100.0	114	1 5	US-10-291-172-236	Sequence 236, App
12	64	100.0	132	9	US-09-925-300-1027	Sequence 1027, Ap
13	ნა	98.4	63	10	US-09-977-406A-57	
14	62	96.9	62	10	US-09-977-406A-56	56,
15	61	95.3	61	10	US-09-977-406A-55	55,

RESULT

59 92.2 59 10 US-09-977-406A-53 58 90.6 58 10 US-09-977-406A-52 57 89.1 57 10 US-09-977-406A-52 58 85.9 56 10 US-09-977-406A-50 58 85.9 55 10 US-09-977-406A-48 58 82.8 53 10 US-09-977-406A-47 58 81.2 52 10 US-09-977-406A-47 59 78.1 50 10 US-09-977-406A-47 51 79.7 51 10 US-09-977-406A-47 48 75.6 48 10 US-09-977-406A-42 49 76.6 48 10 US-09-977-406A-42 47 73.4 47 10 US-09-977-406A-42 47 73.4 47 10 US-09-977-406A-41 48 75.0 48 10 US-09-977-406A-43 48 68.8 44 10 US-09-977-406A-31 49 68.8 44 10 US-09-977-406A-33 40 68.8 44 10 US-09-977-406A-35 41 64.1 41 10 US-09-977-406A-33 38 59.4 38 10 US-09-977-406A-33 39 60.9 39 10 US-09-977-406A-33 39 50.4 38 10 US-09-977-406A-31 39 50.9 39 10 US-09-977-406A-31 30 50.9 37 10 US-09-977-406A-31 31 50.0 32 10 US-09-977-406A-29 32 50.0 32 10 US-09-977-406A-28 33 51.6 33 10 US-09-977-406A-28 33 51.6 33 10 US-09-977-406A-28 34 64.4 31 10 US-09-977-406A-28 35 54.7 35 10 US-09-977-406A-28 36 54.7 35 10 US-09-977-406A-28 37 50.0 32 10 US-09-977-406A-28	9 92.2 59 10 US-09-977-406A-5 7 89.1 57 10 US-09-977-406A-5 6 87.5 56 10 US-09-977-406A-4 4 84.4 54 10 US-09-977-406A-4 2 82.8 53 10 US-09-977-406A-4 1 79.7 51 10 US-09-977-406A-4 2 77.6 4 9 10 US-09-977-406A-4 8 75.0 4 9 10 US-09-977-406A-4 8 77.9 4 6 10 US-09-977-406A-4 7 73.4 4 7 10 US-09-977-406A-3 6 78.1 10 US-09-977-406A-3 6 78.2 10 US-09-977-406A-3 7 73.4 4 10 US-09-977-406A-3 7 73.4 4 10 US-09-977-406A-3 8 67.2 4 3 10 US-09-977-406A-3 9 60.5 4 2 10 US-09-977-406A-3 1 64.1 41 10 US-09-977-406A-3 1 64.1 41 10 US-09-977-406A-3 2 65.6 4 2 10 US-09-977-406A-3 3 67.2 3 3 10 US-09-977-406A-3 5 59.4 33 10 US-09-977-406A-3
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US-09-977-406A-5 US-09-977-406A-5 US-09-977-406A-5 US-09-977-406A-4 US-09-977-406A-4 US-09-977-406A-4 US-09-977-406A-4 US-09-977-406A-3 US-09-977-406A-2	US-09-977-406A-53 US-09-977-406A-52 US-09-977-406A-51 US-09-977-406A-51 US-09-977-406A-49 US-09-977-406A-49 US-09-977-406A-47 US-09-977-406A-47 US-09-977-406A-48 US-09-977-406A-49 US-09-977-406A-43 US-09-977-406A-43 US-09-977-406A-40 US-09-977-406A-39 US-09-977-406A-29
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	Sequence Sequence

## ALIGNMENTS

US-09-977-406A-58

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; OTHER INFORMATION: Polypeptide derived from rHuPSP94 sequence (polypeptide analog)
US-09-977-406A-58
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                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQ ID NOS: 92
SOFTWARE: PatentIn version 3.1
SEQ ID NO 58
                                                                                                                                                                            Query Match
Best Local Similarity
Matches 64; Conserv
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TITLE OF INVENTION: PHARMACUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR PILING DATE: 2001-08-20
PRIOR FILING DATE: 2001-08-20
PRIOR FILING DATE: 2011-08-20
                                                                                                                                                                                                                                                                                                                           LENGTH: 64
TYPE: PRT
ORGANISM: Artificial Sequence
61 EWII
                                           61 EWII 64
                                                                                                                                                                            Ch 100.0%; Score 64; DB 10; Similarity 100.0%; Pred. No. 7.9e-59; 64; Conservative 0; Mismatches 0;
                                                                                                                      1 EWQTDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS
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RESULT 3
US-10-291-360-1
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Best Local 9
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                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: PROCYON BIOPHARMA INC.

TITLE OF INVENTION: PSP-94: Use for Treatment of Hypercalcemia and Bone metastasis
FILE REFERENCE: 06509-051-US-02
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PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
NUMBER OF SEQ ID NOS: 92
                                                                                                  ORGANISM: Homo sapiens
PUBLICATION INFORMATION:
AUTHORS: Ulveback, M., Lindstrom, C., Weiber, H., Abrahamson, P.A., Lilja, H.,
AUTHORS: Lundwall, A"
                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION NUMBER: CA 2,361,736 PRIOR FILING DATE: 2001-11-08
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS FILE REFERENCE: 06508-030-US-03
CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
                                                                                                                                                                                                                                                                                                    NUMBER OF SEQ ID NOS: 6
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PUBLICATION INFORMATION:
AUTHORS: Ulvaback, M., Lindstrom, C., Weiber, H., Abrahamson, P.A.,
AUTHORS: Lundwall, A"
TITLE: Molecular cloning of a small prostate protein, TITLE: inicrosemenoprotein, PSP94 or beta-inhibin, and TITLE: non-genital tissues.
JOURNAL: Biochem. Biophys. Res Commun.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DATABASE ACCESSION NUMBER: GI 131436
DATABASE ENTRY DATE: 1988-08-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE: Molecular cloning of a small prostate protein, TITLE: microsemenoprotein, PSP94 or beta-inhibin, and TITLE: non-genital tissues.
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DATABASE ENTRY DATE: 1988-08-01
US-10-291-360-1
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                                                                                          Sequence 2, Application US/10291360
Publication No. US20030119744A1
GENERAL INFORMATION:
APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PSP-94: Use for Treatment of Hypercalcemia and Bone metastasis
FILE REFERENCE: 05508-051-US-02
CURRENT APPLICATION NUMBER: US/10/291,360
CURRENT FILING DATE: 2002-11-08
CURRENT FILING DATE: 2002-11-08
SOFTWARE:
SEQ ID NO 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SOFTWARE: PatentIn version 3.1 SEQ ID NO 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 2, Application US/09977406A publication No. US20030170220A1 GENERAL INFORMATION:
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Best Local Similarity
                  NUMBER OF SEQ ID NOS: 6 SOFTWARE: PatentIn version
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PHARMACUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR PILING DATE: 2000-10-16
PRIOR PILING DATE: 2000-10-16
PRIOR PILING DATE: 2000-10-16
PRIOR FILING DATE: 2001-08-20
                                                       PRIOR APPLICATION NUMBER: CA 2,361,736 PRIOR FILING DATE: 2001-11-08
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OTHER INFORMATION: recombinant human PSP94 (rHuPSP94) produced
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURE:
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PAGES: 1310-1315
DATE: 1989
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                                                                                                                                                                                                                                                                                                                                                                      EWII 64
                                                                                                                                                                                                                                                                                                                                                                                                             EWQTDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS
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Pred. No. 1.1e-58;
; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 64; DB 10;
Pred. No. 1.2e-58;
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US-10-012-896-1003
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                                                                                                                                                                                                       RESULT
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CURRENT FILING DATE: 2002-09-06
PRIOR APPLICATION NUMBER: 09/693,267
PRIOR APPLICATION NUMBER: 09/665,363
PRIOR FILING DATE: 2000-09-19
PRIOR APPLICATION NUMBER: 09/616,847
PRIOR APPLICATION NUMBER: 09/616,847
PRIOR FILING DATE: 2000-07-14
PRIOR FILING DATE: 2000-07-14
PRIOR FILING DATE: 2000-05-17
PRIOR APPLICATION NUMBER: 09/574,454
PRIOR APPLICATION NUMBER: 09/574,454
PRIOR APPLICATION NUMBER: 09/574,454
PRIOR APPLICATION NUMBER: 09/574,454
PRIOR APPLICATION NUMBER: 09/574,454
PRIOR FILING DATE: 2000-05-17
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; OTHER INFORMATION: recombinant human PSP94 (rHuPSP94) produced from yeast
US-10-291-360-2
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Best Local S
Matches 64
                                                    GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Dillon, Davin C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Harlocker, Susan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQ ID NOS: 752
SEQ ID NO 236
LENGTH: 114
TYPE: PRT
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TITLE OF INVENTION: No. U
FILE REFERENCE: 21272-045
                                       APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION NUMBER: 09/519,705
PRIOR FILING DATE: 2000-03-07
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Harlocker, Susan L.
Jiang, Yuqiu
Kalos, Michael D.
Retter, Marc W.
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Pred. No. 1.2e-58;
Mismatches 0;
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Pred. No. 1.3e-58;
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APPLICANT: ALMOST, DUSTIN
APPLICANT: ANGESON, DUSTIN
TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AN
TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESS
TITLE OF INVENTION: METHODS FOR STATE CANCER
TITLE OF INVENTION: METHODS FOR STATE CANCER
FILE REFERENCE: MRI-044
CURRENT FILLING DATE: 2002-07-25
PRIOR APPLICATION NUMBER: 60/307,982
PRIOR APPLICATION NUMBER: 60/307,982
PRIOR FILLING DATE: 2001-07-25
PRIOR FILLING DATE: 2001-07-25
PRIOR FILLING DATE: 2001-08-22
PRIOR FILLING DATE: 2001-08-22
PRIOR APPLICATION NUMBER: 60/325,020
PRIOR APPLICATION NUMBER: 60/325,020
PRIOR APPLICATION NUMBER: 60/341,746
PRIOR APPLICATION NUMBER: 60/341,746
PRIOR APPLICATION NUMBER: 60/341,746
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APPLICANT: Meagher, Madeleine Joy
FITTLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
FITTLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILLE REFERENCE: 210121.427C27
CURRENT APPLICATION NUMBER: US/10/012,896
CURRENT FILING DATE: 2001-12-10
NUMBER OF SEQ ID NOS: 1011
SEQ ID NO 1003
LENGTHA 1.1.
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Best Local Similarity
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APPLICANT: Monahan, John E.
APPLICANT: Endege, Wilson O.
                                                                                                                                                                                                                                                                                                             APPLICANT:
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TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           111
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                                                                                                                                                                                                                                                                                                                    Wonsey, Karen
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Vedvick, Thomas
Carter, Darrick
                                                                                                                                                                                                                                                                                                                                                  Kamatkar, Shubhangi
Wonsey, Angela M.
                                                                                                                                                                                                                                                                                                                                                                                                                                Gannavarapu, Manjula
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McNeill, Patricia D.
Houghton, Raymond L.
Vinals de Bassols, Carlota
                                                                                                                                                                                                                                                                                                                                                                                                            Gorbatcheva, Bella
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Hepler, William T.
Henderson, Robert A.
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Pred. No. 1.3e-58;
); Mismatches 0;
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                                                                                                                              ; TYPE: PRT ; ORGANISM: Homo sapiens US-10-144-678A-1003
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-205-823-271
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SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 271
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                                                                                                                                                                               NUMBER OF SEQ ID NOS: 1033
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 1003
LENGTH: 114
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Best Local Similarity
                                                             Matches
                                                                               Query Match
Best Local Similarity
                                                                                                                                                                                                                               TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER FILE REFERENCE: 210121.427C28 CURRENT APPLICATION NUMBER: US/10/144,678A CURRENT FILING DATE: 2002-08-12 NUMBER OF SEQ ID NOS: 1033
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51
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                                                               64;
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Houghton, Raymond L.
Vinals y de Bassols, C
Foy, Teresa M.
Watanabe, Yoshihiro
Deng, Ta
                            EWQTDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS 60
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Kalos, Michael D
Fanger, Gary R.
Retter, Marc W.
Stolk, John A.
 EWOTDNCETCTCYETE ISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS
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Hepler, William T.
Hural, John
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Carter, Darrick
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Jiang, Yuqiu
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                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Samuel X.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Craig H.
ick, Thomas S
                                                                               100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Susan L.
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Pred. No. 1.3e-58;
Pred. No. 0;
                                                               0.
                                                               Score 64; DB 14;
Pred. No. 1.3e-58;
Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                  Carlota
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US-10-294-025-1003
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                                                                                                                        ; LENGTH: 114
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-291-172-236
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US-10-291-172-236
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CURRENT FILING DATE: 2000-11-08
PRIOR APPLICATION NUMBER: 09/693,267
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 09/665,363
PRIOR FILING DATE: 2000-09-19
PRIOR APPLICATION NUMBER: 09/616,847
PRIOR FILING DATE: 2000-07-14
PRIOR FILING DATE: 2000-07-14
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQ ID NOS: 1038
SOFTWARE: FRATSEQ for Windows Version 3.0
SEQ ID NO 1003
LENGTH: 114
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 236, Application US/10291172 Publication No. US20030228584A1 GENERAL INFORMATION:
                                       Query Match
Best Local Similarity
Matches 64; Conserv
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SEQ ID NO 236
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APPLICANT: Xu, Jiangchun
APPLICANT: Stolk, John A.
APPLICANT: Kalos, Michael D.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C29
CURRENT APPLICATION NUMBER: US/10/294,025
CURRENT FILING DATE: 2002-11-12
                                                                                                                                                                                                                                                 PRIOR FILING DATE: 2000-05-19
PRIOR APPLICATION NUMBER: 09/519,705
PRIOR FILING DATE: 2000-03-07
                                                                                                                                                                                                                                                                                                            PRIOR FILING DATE: 2000-06
PRIOR APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Hyseq, Inc
TITLE OF INVENTION: No. US20030228584Alel Nucleic Acids and Polypeptides
FILE REFERENCE: 21272-045
                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION NUMBER: 09/596,193
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  1 EWQIDNCETCTCYETEISCCTLVSTFVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS 60
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                                       100.0%; Score 64; DB 15; ilarity 100.0%; Pred. No. 1.3e-58; Conservative 0; Mismatches 0;
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US-09-925-300-1027
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US-09-925-300-1027
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SOFTWARE: PatentIn version 3.1
SEQ ID NO 57
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1027
LENGTH: 132
TYPE: PRT
                                      Matches
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                                                                      Query Match
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Best Local Similarity
                                                                                                                                                                                                                                                                CURRENT APPLICATION NUMBER: US/09/977,406A CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
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CURRENT FILING DATE: 2001-08-10
PRIOR APPLICATION NUMBER: PCT/US00/05988
PRIOR FILING DATE: 2000-03-08
PRIOR APPLICATION NUMBER: 60/124,270
PRIOR FILING DATE: 1999-03-12
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                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS FILE REFERENCE: 06508-030-US-03
                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: PROCYON BIOPHARMA INC.
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                                                                                                                                              LENGTH: 63
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
                                                                                                                    OTHER INFORMATION: Polypeptide derived from rHuPSP94 sequence (polypeptide analog)
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. US20020151681A1
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1 EWQTDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS 60
                                                         Similarity
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                            98.4%; U.
100.0%; Pr
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                                                 Score 63; DB 10; Pred. No. 8.4e-58;
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Pred. No. 1.5e-58;
                                                                    Length 63
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                                                                                                                                                                                    PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
NUMBER OF SEQ ID NOS: 92
SOFTWARE: PatentIn version 3.1
SEQ ID NO 55
LENGTH: 61
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SEQ ID NO 56
LENGTH: 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 55, Application US/09977406A Publication No. US20030170220A1 GENERAL INFORMATION:
Query Match 95.3%; Score 61;
Best Local Similarity 100.0%; Pred. No.
Matches 61; Conservative 0; Mismatci
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Best Local Similarity
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Publication No.
                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
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CURRENT FILING DATE: 2001-10-15
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
                                                                                               OTHER INFORMATION: Polypeptide derived from rHuPSP94 sequence (polypeptide analog
                                                                                                                                          TYPE: PRT
ORGANISM: Artificial Sequence
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No. US20030170220A1
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Pred. No.
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9e-57;
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red. No. 9.7e-56; Mismatches 0;

Indels

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Search co Job time	DЪ	δ	Dβ	γQ
Search completed: March 18, 2004, 06:14:55 Job time : 53.129 secs	61 8 61	61 E 61	1 EWQTDNCETCTCYETEISCCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS 60	1 EWQTDNCETCTCYETE18CCTLVSTPVGYDKDNCQRIFKKEDCKYIVVEKKDPKKTCSVS 60

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Result
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Maximum DB seq
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Perfect score:
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length: 2000000000
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/cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB_pep:*
/cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB_pep:*
/cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB_pep:*
/cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB_pep:*
/cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB_pep:*
/cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB_pep:*
/cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB_pep:*
/cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB_pep:*
/cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB_pep:*
/cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB_pep:*
/cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB_pep:*
/cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB_pep:*
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6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*
6/ptodata/2/pubpaa/US06_PUBCOMB.pep:*
6/ptodata/2/pubpaa/US06_PUBCOMB.pep:*
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   4 US-10-291-360-2
2 US-10-221-278-236
3 US-10-012-896-1003
4 US-10-205-823-271
4 US-10-205-823-271
4 US-10-294-025-1003
4 US-10-294-025-1003
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-291-360-1
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Sequence 236, App
Sequence 1003, App
Sequence 1003, App
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Sequence 1003, App
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Sequence 87, Appl
Sequence 86, Appl
Sequence 86, Appl
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## ALIGNMENTS

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US-09-97-406A-1
US-09-97-406A-1
; Sequence 1, Application US/09977406A
; Publication No. US20030170220A1
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-09-977-406A-88
(Sequence 88, Application US/09977406A)
(Sequence 80, Application US/09977406A)
(Publication No. US20030170220A1)
(GENERAL INFORMATION:
(GENERAL INFORMATION: PHARMACHITICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS)
(FILTE OF INVENTION: PHARMACHITICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS)
(FURRENT APPLICATION NUMBER: US/09/977,406A)
(CURRENT FILING DATE: 2001-10-15)
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                                                                                                                                                                                                                                                                                                                                                                    ; OTHER INFORMATION: Polypeptide derived from rHuPSP94 sequence (polypeptide analog) US-09-977-406A-88
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SEQ ID NO 88
LENGTH: 45
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Best Local (
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PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
NUMBER OF SEQ ID NOS: 92
                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURE:
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                                         DATABASE ACCESSION NUMBER: GI 131436; DATABASE ENTRY DATE: 1988-08-01
US-10-291-360-1
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US-10-291-360-1
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Best Local S
Matches 45
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Query Match
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PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
                                                                                                                                                                                                                                                                                                                                                                                                                                                        CURRENT APPLICATION NUMBER: US/10/291,360
CURRENT FILING DATE: 2002-11-08
PRIOR APPLICATION NUMBER: CA 2,361,736
PRIOR FILING DATE: 2001-11-08
NUMBER OF SEQ ID NOS: 6
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TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: PRT
ORGANISM: Homo sapiens
PUBLICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOFTWARE: PatentIn version 3.1
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NUMBER OF SEQ ID NOS: 92
                                                                                                                                                                                                                                                                                                                           TYPE: PRT
ORGANISM: Homo sapiens
PUBLICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PSP-94: Use for Treatment of Hypercalcemia and
FILE REFERENCE: 06508-051-US-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DATABASE ACCESSION NUMBER: GI 131436
DATABASE ENTRY DATE: 1988-08-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE: Molecular cloning of a small prostate protein, TITLE: microsemenoprotein, PSP94 or beta-inhibin, and TITLE: non-genital tissues.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AUTHORS: Ulvsback, M., Lindstrom, AUTHORS: Lundwall, A"
                                                                                                                                                                                                             TITLE: Molecular cloning of a small prostate protein, TITLE: microsemenoprotein, PSP94 or beta-inhibin, and TITLE: non-genital tissues.
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                                                                                                            DATE: 1989
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                                                                                                                                                                        VOLUME: 164
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  100.0%;
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Pred. No. 4.7e-41;
Mismatches 0;
    Score 45;
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    DB
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  Length 94;
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demonstration of transcripts
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demonstration
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                                                                                                                                                                                                                                                                Sequence 2, Application US/10291360
Publication No. US20030119744A1
GENERAL INFORMATION: US20030119744A1
INFORMATION: PSP-94: Use for Treatment of Hypercalcemia and Bone metastasis FILE REFERENCE: 06508-051-US-02
CURRENT APPLICATION UNMBER: US/10/291,360.
CURRENT FILING DATE: 2002-11-08
PRIOR FILING DATE: 2002-11-08
PRIOR FILING DATE: 2001-11-08
NUMBER OF SEQ ID NOS: 6
SOFTWARE: Patentin version 3.1
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SOFTWARE: PatentIn version 3.1
SEQ ID NO 2
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Publication No. US20030170220A1
GENERAL INFORMATION:
APPLICANT: PROCYON BIOPHARMA INC.
APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
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Best Local
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Matches 45; Conser
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Best Local
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                                                                     Matches
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                                                                                                                                                                               ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                    TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT ORGANISM: Artificial Sequence
                                                                                                                                                              OTHER INFORMATION: recombinant human PSP94 (rHuPSP94) produced
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGTH:
                                                                                                                                                                                                                                     LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         102
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         l Similarity
45; Conserv
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                                                                     l Similarity
45; Conser
                                                                                                                                                                                                                                     102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 53
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                           SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET
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                                                                                        100.0%;
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Pred. No. 5.1e-41
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mismatches 0;
                                                                                          Score 45;
Pred. No.
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                                                                         Mismatches
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                                                                                                          Length 102;
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RESULT 6

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; LENGTH: 114
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-221-278-236
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PRIOR FILING DATE: 2000-05-19
PRIOR APPLICATION NUMBER: 09/519,705
PRIOR FILING DATE: 2000-03-07
NUMBER OF SEQ ID NOS: 752
SEQ ID NO 236
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 1003, Application US/10012896 Publication No. US20020183251A1
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
                 APPLICANT: Wantanabe, Yoshihiro
APPLICANT: Meagher, Madeleine Joy
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C27
CURRENT APPLICATION NUMBER: US/10/012,896
CURRENT FILLING DATE: 2001-12-10
NUMBER OF SEQ ID NOS: 1011
                                                                                                                                                                                                                                                                                                        APPLICANT:
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CURRENT APPLICATION NUMBER: US/10/221,278
CURRENT FILING DATE: 2002-09-06
PRIOR APPLICATION NUMBER: 09/693,267
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 09/665,363
PRIOR FILING DATE: 2000-09-19
PRIOR FILING DATE: 2000-09-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION NUMBER: 09/616,847
PRIOR FILING DATE: 2000-07-14
PRIOR APPLICATION NUMBER: 09/596,193
PRIOR FILING DATE: 2000-06-17
PRIOR FILING DATE: 2000-06-17
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DFTWARE: FastSEQ for Windows Version 3.0
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Retter, Mar.
Stolk, John A.
Stolk, Taig H.
Thoma:
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Kalos, Michael D.
                                                                                                                                                                                                                   McNeill, Patricia D.
Houghton, Raymond L.
Vinals de Bassols, Carlota
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Carter, Darrick
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Harlocker,
                                                                                                                                                                                                                                                                                                                     Skeiky, Yasir A.W.
Hepler, William T.
                                                                                                                                                                               fanger, Gary R.
                                                                                                                                                                                                                                                                                                      ienderson, Robert A.
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                                                                                                                                                                                                                                                                                                                                                                                      Samuel X.
                                                                                                                                                                                                                                                                                                                                                                    Ai jun
                                                                                                                                                                                                                                                                                                                                                                                                                             Thomas S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Susan L.
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US-10-144-678A-1003

Sequence 1003, Application US/10144678A Publication No. US20030157089A1

GENERAL

INFORMATION:

APPLICANT: Xu, Jiangchun APPLICANT: Dillon, Davin C. APPLICANT: Mitcham, Jennifer L. APPLICANT: Harlocker, Susan L.

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RESULT 9
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PRIOR FILING DATE: 2001-07-25
PRIOR PELICATION NUMBER: 60/314,356
PRIOR APPLICATION NUMBER: 60/314,356
PRIOR APPLICATION NUMBER: 60/325,020
PRIOR TILING DATE: 2001-09-25
PRIOR APPLICATION NUMBER: 60/341,746
PRIOR APPLICATION NUMBER: 60/341,746
PRIOR FILING DATE: 2001-12-12
PRIOR APPLICATION NUMBER: 60/362,158
PRIOR FILING DATE: 2002-03-05
NUMBER: 0F SEQ ID NOS: 455
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HENGTH: 114
TYPE: PRT
                                                                                                                                                                                                                            SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 271
LENGTH: 114
TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                    Matches
                                                                                                                                                                         Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Anderson, Dustin
TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS,
TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASS
TITLE OF INVENTION: THERAPY OF PROSTATE CANCER
FILE REFERENCE: MRI-044
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                                                                                                                                                         Local
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                                                          21
                                                                                                                                    45;
                                                                             1 SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 45
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                                                                                                                                                      Similarity
                                                    SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 65
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Gorbatcheva, Bella
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Endege, Wilson O.
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Wonsey, Angela M.
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c. US20030108963A1
                                                                                                                                    Conservative
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                                                                                                                             100.0%; Score 45; DB 14;
100.0%; Pred. No. 5.6e-41;
tive 0; Mismatches 0;
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                                                                                                                                                                   Length 114;
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RESULT 11
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                                                                                                                                                                                                                                                                   APPLICANT: Xu, Jiangchun
APPLICANT: Stolk, John A.
APPLICANT: Stolk, John A.
APPLICANT: Stolk, John A.
APPLICANT: Stolk, John A.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIACNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121,427C29
FILE REFERENCE: 210121,427C29
CURRENT APPLICATION NUMBER: US/10/294,025
CURRENT FILING DATE: 2002-11-12
NUMBER OF SEQ ID NOS: 1038
SOFTWARE: PAStSEQ for Windows Version 3.0
SEQ ID NO 1003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER FILE REFERENCE: 210121.427C28
CURRENT APPLICATION NUMBER: US/10/144,678A
CURRENT FILING DATE: 2002-08-12
NUMBER OF SEQ ID NOS: 1033
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 1003
LENGTH: 114
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Best Local S
Matches 45
                                                                                                                             Matches
                                                                                                                                                               Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT
                                                                                                                                                                                                                                                         LENGTH: 114
                                                                                                                                                 Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21 SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET
                                                       21
                                                                                                                             45;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           45;
                                                                            1 SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         h 100.0%; Score 45; DB 14; Similarity 100.0%; Pred. No. 5.6e-41; 45; Conservative 0; Mismatches 0;
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Fanger, Gary R.
Retter, Marc W.
                                                       SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Houghton, Raymond L. Vinals y de Bassols, Foy, Teresa M.
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Carter, Darrick
Li, Samuel X.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Skeiky, Yasır A. W
Hepler, William T.
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                                                                                                                               Conservative
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                                                                                                                                             100.0%;
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                                                                                                                           Score 45; DB 14;
Pred. No. 5.6e-41;
Mismatches 0;
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; TYPE: PRT; ORGANISM: Homo sapiens US-09-925-300-1027
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US-09-925-300-1027
; Sequence 1027, Application US/09925300
; Patent No. US200220151681A1
RESULT 13
US-09-977-406A-87
; Sequence 87, Application US/09977406A
; Publication No. US20030170220A1
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PRIOR FILING DATE: 2000-09-19
PRIOR PELICATION NUMBER: 09/616,847
PRIOR APPLICATION NUMBER: 09/616,847
PRIOR APPLICATION NUMBER: 09/596,193
PRIOR FILING DATE: 2000-06-17
PRIOR APPLICATION NUMBER: 09/574,454
PRIOR APPLICATION NUMBER: 09/574,454
PRIOR FILING DATE: 2000-05-19
PRIOR FILING DATE: 2000-05-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
APPLICANT: Craig Rosen,
APPLICANT: Steve Ruben
TITLE OF INVENTION: Nucleic Acids, Proteins
FILE REFERENCE: PA.01
                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQ ID NOS: 1890
SOFTWARE: PATENTIN VET. 2.0
SEQ ID NO 1027
LENGTH: 132
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LENGTH: 114
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Best Local Similarity
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Best Local
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TITLE OF INVENTION: No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION NUMBER: 09/519,705 PRIOR FILING DATE: 2000-03-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION NUMBER: 09/693,267 PRIOR FILING DATE: 2000-10-20
                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION NUMBER: 60/124,270 PRIOR FILING DATE: 1999-03-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION NUMBER: US/09/925,300 CURRENT FILING DATE: 2001-08-10 PRIOR APPLICATION NUMBER: PCT/US00/05988 PRIOR FILING DATE: 2000-03-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CURRENT APPLICATION NUMBER: US/10/291,172
CURRENT FILING DATE: 2000-11-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILE REFERENCE: 21272-045
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21 SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET
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                                                                                                                                                     1 SCYFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 45
                                                                                                                                                                                               l Similarity
45; Conserv
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                                                                                                                                                                                             100.0%; ilarity 100.0%; Conservative 0;
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Pred. No. 5.6e-41;
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Pred. No. 6.4e-41;
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RESULT 15
US-09-977-406A-85
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US-09-977-406A-86
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Sequence 85, Application US/09977406A
Publication No. US20030170220A1
GENERAL INFORMATION:
APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS FOR INHIBITING TUMORS
FILE REFERENCE: 06508-030-US-03
CURRENT APPLICATION NUMBER: US/09/977,406A
CURRENT FILING DATE: 2001-10-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOFTWARE: PatentIn version 3.1
SEQ ID NO 86
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 86, Application US/09977406A Publication No. US20030170220A1 GENERAL INFORMATION:
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: CA 2,321,256
PRIOR TILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA 2,355,334
PRIOR FILING DATE: 2001-08-20
NUMBER OF SEQ ID NOS: 92
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION NUMBER: US/09/977,406A CURRENT FILING DATE: 2001-10-15 PRIOR APPLICATION NUMBER: CA 2,321,256 PRIOR FILING DATE: 2000-10-16 PRIOR APPLICATION NUMBER: CA 2,355,334 PRIOR FILING DATE: 2001-08-20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: PROCYON BIOPHARMA INC.
TITLE OF INVENTION: PHARMACEUTICAL PREPARATIONS AND METHODS
FILE REFERENCE: 06508-030-US-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LENGTH: 44
TYPE: PRT
ORGANISM: Artificial Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ENGTH: 43
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                                                                                                                                                                                                                                                                                                                                                           43;
                                                                                                                                                                                                                                                                                                      3 YFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 45
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44; Conservative
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                                                                                                                                                                                                                                                                YFIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 43
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                                                                                                                                                                                                                                                                                                                                                  95.6%; Score 43; DB 10; 1
100.0%; Pred. No. 3.5e-39;
tive 0; Mismatches 0;
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100.0%; Pred. No.
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. 3e-40;
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Search completed: March 18, 2004, 06:14:55 Job time : 36.6532 secs
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                                                                                                                                                                                                                                                   ; OTHER INFORMATION: Polypeptide derived from rHuPSP94 sequence (polypeptide analog) US-09-977-406A-85
                                                                                                                                                                    Query Match
Best Local Similarity
Matches 42; Conserv
                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: PatentIn version 3.1 SEQ ID NO 85
                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR FILING DATE: 2000-10-16
PRIOR APPLICATION NUMBER: CA:
PRIOR FILING DATE: 2001-08-20
NUMBER OF SEQ ID NOS: 92
                                                                                                                                                                                                                                                                                                  TYPE: PRT ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                FEATURE:
                                                                                                                                                                                                                                                                                                                                                            ENGTH:
                                                                                                                   4 FIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 45
                                                                                  FIPNEGVPGDSTRKCMDLKGNKHPINSEWQTDNCETCTCYET 42
                                                                                                                                                             93.3%; Score 42; DB 10; 1 larity 100.0%; Pred. No. 4.1e-38; Conservative 0; Mismatches 0;
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